# S. 2191

To direct the Administrator of the Environmental Protection Agency to establish a program to decrease emissions of greenhouse gases, and for other purposes.

### IN THE SENATE OF THE UNITED STATES

OCTOBER 18, 2007

Mr. Lieberman (for himself, Mr. Warner, Mr. Harkin, Mr. Coleman, Mrs. Dole, Ms. Collins, Mr. Cardin, Ms. Klobuchar, and Mr. Casey) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

## A BILL

To direct the Administrator of the Environmental Protection Agency to establish a program to decrease emissions of greenhouse gases, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 "America's Climate Security Act of 2007".
- 6 (b) Table of Contents.—The table of contents of
- 7 this Act is as follows:
  - Sec. 1. Short title; table of contents.
  - Sec. 2. Findings.

- Sec. 3. Purposes.
- Sec. 4. Definitions.

#### TITLE I—CAPPING GREENHOUSE GAS EMISSIONS

#### Subtitle A—Tracking Emissions

- Sec. 1101. Purpose.
- Sec. 1102. Definitions.
- Sec. 1103. Reporting requirements.
- Sec. 1104. Data quality and verification.
- Sec. 1105. Federal greenhouse gas registry.
- Sec. 1106. Enforcement.

#### Subtitle B—Reducing Emissions

- Sec. 1201. Emission allowance account.
- Sec. 1202. Compliance obligation.
- Sec. 1203. Penalty for noncompliance.

#### TITLE II—MANAGING AND CONTAINING COSTS EFFICIENTLY

#### Subtitle A—Trading

- Sec. 2101. Sale, exchange, and retirement of emission allowances.
- Sec. 2102. No restriction on transactions.
- Sec. 2103. Allowance transfer system.
- Sec. 2104. Allowance tracking system.

#### Subtitle B—Banking

- Sec. 2201. Indication of calendar year.
- Sec. 2202. Effect of time.

#### Subtitle C—Borrowing

- Sec. 2301. Regulations.
- Sec. 2302. Term.
- Sec. 2303. Repayment with interest.

#### Subtitle D—Offsets

- Sec. 2401. Outreach initiative on revenue enhancement for agricultural producers.
- Sec. 2402. Establishment of domestic offset program.
- Sec. 2403. Eligible agricultural and forestry offset project types.
- Sec. 2404. Project initiation and approval.
- Sec. 2405. Offset verification and issuance of allowances for agricultural and forestry projects.
- Sec. 2406. Tracking of reversals for sequestration projects.
- Sec. 2407. Examinations.
- Sec. 2408. Timing and the provision of offset allowances.
- Sec. 2409. Offset registry.
- Sec. 2410. Environmental considerations.
- Sec. 2411. Program review.

#### Subtitle E—International Credits

Sec. 2501. Use of international allowances or credits.

Sec. 2502. Regulations.

Sec. 2503. Facility certification.

#### Subtitle F—Carbon Market Efficiency Board

Sec. 2601. Purposes.

Sec. 2602. Establishment of Carbon Market Efficiency Board.

Sec. 2603. Duties.

Sec. 2604. Powers.

Sec. 2605. Estimate of costs to economy of limiting greenhouse gas emissions.

#### TITLE III—ALLOCATING AND DISTRIBUTING ALLOWANCES

#### Subtitle A—Early Auctions

Sec. 3101. Allocation for early auctions.

#### Subtitle B—Annual Auctions

Sec. 3201. Allocation for annual auctions.

#### Subtitle C—Early Action

Sec. 3301. Allocation.

Sec. 3302. Distribution.

#### Subtitle D—States

Sec. 3401. Allocation for energy savings.

Sec. 3402. Allocation for States with programs that exceed Federal emission reduction targets.

Sec. 3403. General allocation.

#### Subtitle E—Electricity Consumers

Sec. 3501. Allocation.

Sec. 3502. Distribution.

Sec. 3503. Use.

Sec. 3504. Reporting.

## Subtitle F—Bonus Allowances for Carbon Capture and Geological Sequestration

Sec. 3601. Allocation.

Sec. 3602. Qualifying projects.

Sec. 3603. Distribution.

Sec. 3604. 10-Year limit.

Sec. 3605. Exhaustion of bonus allowance account.

#### Subtitle G—Domestic Agriculture and Forestry

Sec. 3701. Allocation.

Sec. 3702. Agricultural and forestry greenhouse gas management research.

Sec. 3703. Distribution.

#### Subtitle H—International Forest Protection

Sec. 3801. Findings.

Sec. 3802. Definition of forest carbon activities.

Sec. 3803. Allocation.

- Sec. 3804. Definition and eligibility requirements.
- Sec. 3805. International forest carbon activities.
- Sec. 3806. Reviews and discount.

#### Subtitle I—Covered Facilities

- Sec. 3901. Allocation.
- Sec. 3902. Distribution system.
- Sec. 3903. Distributing emission allowances within the electric power sector.
- Sec. 3904. Distributing emission allowances within the industrial sector.

#### TITLE IV—AUCTIONS AND USES OF AUCTION PROCEEDS

#### Subtitle A—Funds

- Sec. 4101. Establishment.
- Sec. 4102. Amounts in Funds.
- Sec. 4103. Transfers to Funds.

#### Subtitle B—Climate Change Credit Corporation

- Sec. 4201. Establishment.
- Sec. 4202. Applicable laws.
- Sec. 4203. Board of directors.

#### Subtitle C—Auctions

- Sec. 4301. Early auctions.
- Sec. 4302. Annual auctions.

#### Subtitle D—Energy Technology Deployment

- Sec. 4401. In general.
- Sec. 4402. Zero- or low-carbon energy technologies deployment.
- Sec. 4403. Advanced coal and sequestration technologies program.
- Sec. 4404. Fuel from cellulosic biomass.
- Sec. 4405. Advanced technology vehicles manufacturing incentive program.

#### Subtitle E—Energy Consumers

- Sec. 4501. Proportions of funding availability.
- Sec. 4502. Rural energy assistance program.

#### Subtitle F—Climate Change Worker Training Program

- Sec. 4601. Funding.
- Sec. 4602. Purposes.
- Sec. 4603. Establishment.
- Sec. 4604. Grants to States.
- Sec. 4605. Types of assistance.

#### Subtitle G—Adaptation Program for Natural Resources in United States and Territories

- Sec. 4701. Definitions.
- Sec. 4702. Adaptation fund.

#### Subtitle H—Climate Change and National Security Program

Sec. 4801. Interagency Climate Change and National Security Council.

Sec. 4802. Funding.

#### Subtitle I—Audits

Sec. 4901. Review and audit by Comptroller General of the United States.

#### TITLE V—ENERGY EFFICIENCY

#### Subtitle A—Appliance Efficiency

- Sec. 5101. Residential boilers.
- Sec. 5102. Regional variations in heating or cooling standards.

#### Subtitle B—Building Efficiency

- Sec. 5201. Updating State building energy efficiency codes.
- Sec. 5202. Conforming amendment.

## TITLE VI—GLOBAL EFFORT TO REDUCE GREENHOUSE GAS EMISSIONS

- Sec. 6001. Definitions.
- Sec. 6002. Purposes.
- Sec. 6003. International negotiations.
- Sec. 6004. Interagency review.
- Sec. 6005. Presidential determinations.
- Sec. 6006. International reserve allowance program.
- Sec. 6007. Adjustment of international reserve allowance requirements.

#### TITLE VII—REVIEWS

- Sec. 7001. National Academy of Sciences Review.
- Sec. 7002. Transportation sector review.
- Sec. 7003. Adaptation review.

## TITLE VIII—FRAMEWORK FOR GEOLOGICAL SEQUESTRATION OF CARBON DIOXIDE

- Sec. 8001. National drinking water regulations.
- Sec. 8002. Assessment of geological storage capacity for carbon dioxide.
- Sec. 8003. Study of the feasibility relating to construction of pipelines and geological carbon dioxide sequestration activities.
- Sec. 8004. Liabilities for closed geological storage sites.

#### TITLE IX—MISCELLANEOUS

- Sec. 9001. Paramount interest waiver.
- Sec. 9002. Corporate environmental disclosure of climate change risks.
- Sec. 9003. Administrative procedure and judicial review.
- Sec. 9004. Retention of State authority.
- Sec. 9005. Tribal authority.
- Sec. 9006. Authorization of appropriations.

#### 1 SEC. 2. FINDINGS.

### 2 Congress finds that—

1	(1) unchecked global warming poses a signifi-
2	cant threat to—
3	(A) the national security and economy of
4	the United States;
5	(B) public health and welfare in the
6	United States;
7	(C) the well-being of other countries; and
8	(D) the global environment;
9	(2) under the United Nations Framework Con-
10	vention on Climate Change, done at New York on
11	May 9, 1992, the United States is committed to sta-
12	bilizing greenhouse gas concentrations in the atmos-
13	phere at a level that will prevent dangerous anthro-
14	pogenic interference with the climate system;
15	(3) according to the Fourth Assessment Report
16	of the Intergovernmental Panel on Climate Change,
17	stabilizing greenhouse gas concentrations in the at-
18	mosphere at a level that will prevent dangerous in-
19	terference with the climate system will require a
20	global effort to reduce anthropogenic greenhouse gas
21	emissions worldwide by 50 to 85 percent below 2000
22	levels by 2050;
23	(4) prompt, decisive action is critical, since
24	global warming pollutants can persist in the atmos-
25	phere for more than a century;

1	(5) the ingenuity of the people of the United
2	States will allow the United States to become a lead-
3	er in curbing global warming;
4	(6) it is possible and desirable to cap green-
5	house gas emissions, from sources that together ac-
6	count for the majority of those emissions in the
7	United States, at the current level in 2012, and to
8	lower the cap each year between 2012 and 2050, on
9	the condition that the system includes—
10	(A) cost containment measures;
11	(B) periodic review of requirements;
12	(C) an aggressive program for deploying
13	advanced energy technology;
14	(D) programs to assist low- and middle-in-
15	come energy consumers; and
16	(E) programs to mitigate the impacts of
17	any unavoidable global climate change;
18	(7) Congress may need to update the emissions
19	caps in order to account for continuing scientific
20	data and steps taken, or not taken, by foreign coun-
21	tries;
22	(8) accurate emission data and timely compli-
23	ance with the requirements of the greenhouse gas
24	emission reduction and trading program established

under this Act are needed to ensure that reductions

1	are achieved and to provide equity, efficiency, and
2	openness in the market for allowances subject to the
3	program; and
4	(9) additional policies external to a cap-and
5	trade program may be required, including with re
6	spect to—
7	(A) the transportation sector, where reduc
8	ing greenhouse gas emissions requires changes
9	in the vehicle, in the fuels, and in consumer be
10	havior; and
11	(B) the built environment, where reducing
12	direct and indirect greenhouse gas emissions re
13	quires changes in buildings, appliances, light
14	ing, heating, cooling, and consumer behavior.
15	SEC. 3. PURPOSES.
16	The purposes of this Act are—
17	(1) to establish the core of a Federal program
18	that will reduce United States greenhouse gas emis
19	sions substantially enough between 2007 and 2050
20	to avert the catastrophic impacts of global climate
21	change; and
22	(2) to accomplish that purpose while preserving
23	robust growth in the United States economy and
24	avoiding the imposition of hardship on United States

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citizens.

### 1 SEC. 4. DEFINITIONS.

2	In this Act:
3	(1) Additional and additionality.—The
4	terms "additional" and "additionality" mean the ex-
5	tent to which reductions in greenhouse gas emissions
6	or increases in sequestration are incremental to busi-
7	ness-as-usual, measured as the difference between—
8	(A) baseline greenhouse gas fluxes of an
9	offset project; and
10	(B) greenhouse gas fluxes of the offset
11	project.
12	(2) Administrator.—The term "Adminis-
13	trator" means the Administrator of the Environ-
14	mental Protection Agency.
15	(3) Baseline.—The term "baseline" means
16	the greenhouse gas flux or carbon stock that would
17	have occurred in the absence of an offset allowance.
18	(4) BIOLOGICAL SEQUESTRATION; BIO-
19	LOGICALLY SEQUESTERED.—The terms "biological
20	sequestration" and "biologically sequestered"
21	mean—
22	(A) the removal of greenhouse gases from
23	the atmosphere by terrestrial biological means,
24	such as by growing plants; and
25	(B) the storage of those greenhouse gases
26	without reversal in the plants or related soils.

1	(5) CARBON DIOXIDE EQUIVALENT.—The term
2	"carbon dioxide equivalent" means, for each green-
3	house gas, the quantity of the greenhouse gas that
4	the Administrator determines makes the same con-
5	tribution to global warming as 1 metric ton of car-
6	bon dioxide.
7	(6) Corporation.—The term "Corporation"
8	means the Climate Change Credit Corporation es-
9	tablished by section 4201(a).
10	(7) COVERED FACILITY.—The term "covered
11	facility" means—
12	(A) any facility within the electric power
13	sector that contains fossil fuel-fired electricity
14	generating units that together emit more than
15	10,000 carbon dioxide equivalents of green-
16	house gas in any year;
17	(B) any facility within the industrial sector
18	that emits more than 10,000 carbon dioxide
19	equivalents of greenhouse gas in any year;
20	(C) any facility that in any year produces,
21	or any entity that in any year imports,
22	petroleum- or coal-based transportation fuel,
23	the use of which will emit more than 10,000

carbon dioxide equivalents of greenhouse gas,

1	assuming no capture and permanent sequestra-
2	tion of that gas; or
3	(D) any facility that in any year produces,
4	or any entity that in any year imports, nonfuel
5	chemicals that will emit more than 10,000 car-
6	bon dioxide equivalents of greenhouse gas, as-
7	suming no capture and destruction or perma-
8	nent sequestration of that gas.
9	(8) Destruction.—The term "destruction"
10	means the conversion of a greenhouse gas by ther-
11	mal, chemical, or other means—
12	(A) to another gas with a low- or zero-
13	global warming potential; and
14	(B) for which credit given reflects the ex-
15	tent of reduction in global warming potential
16	actually achieved.
17	(9) Electric power sector.—The term
18	"electric power sector" means the "Electric Power
19	Industry", as that term is used in Table ES-7 of
20	the Environmental Protection Agency document en-
21	titled "Inventory of U.S. Greenhouse Gas Emissions
22	and Sinks: 1990–2005".
23	(10) Emission allowance.—The term "emis-
24	sion allowance" means an authorization to emit 1
25	carbon dioxide equivalent of greenhouse gas.

1 (11) Emission allowance account.—The 2 term "Emission Allowance Account" means the ag-3 gregate of emission allowances that the Adminis-4 trator establishes for a calendar year. 5 (12) Facility.—The term "facility" means— 6 (A) a building, structure, or installation lo-7

- cated on 1 or more contiguous or adjacent properties of an entity in the United States; and
  - (B) at the option of the Administrator, any activity or operation that has a technical connection with the activities carried out at a facility, such as use of transportation fleets, pipelines, transmission lines, and distribution lines, but that is not conducted or located on the property of the facility.
- (13) FAIR MARKET VALUE.—The term "fair market value" means the average price, in a particular calendar year, of an emission allowance auctioned by the Corporation.
- (14) Geological sequestration; geologi-CALLY SEQUESTERED.—The terms "geological sequestration" and "geologically sequestered" mean the long-term isolation of greenhouse gases, without reversal, in geological formations, in accordance with

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1	section 1421(d) of the Safe Drinking Water Act (42
2	U.S.C. 300h(d)).
3	(15) Greenhouse gas.—The term "green-
4	house gas" means any of—
5	(A) carbon dioxide;
6	(B) methane;
7	(C) nitrous oxide;
8	(D) sulfur hexafluoride;
9	(E) a hydrofluorocarbon; or
10	(F) a perfluorocarbon.
11	(16) Industrial sector.—The term "indus-
12	trial sector" means "Industry", as that term is used
13	in Table ES-7 of the Environmental Protection
14	Agency document entitled "Inventory of U.S. Green-
15	house Gas Emissions and Sinks: 1990–2005".
16	(17) Leakage.—The term "leakage" means—
17	(A) a potentially unaccounted increase in
18	greenhouse gas emissions by a facility or entity
19	caused by an offset project that produces an ac-
20	counted reduction in greenhouse gas emissions
21	or
22	(B) a potentially unaccounted decrease in
23	sequestration that is caused by an offset project
24	that results in an accounted increase in seques-
25	tration

1	(18) Load-serving entity.—The term "load-
2	serving entity" means an entity, whether public or
3	private—
4	(A) that has a legal, regulatory, or con-
5	tractual obligation to deliver electricity to retail
6	consumers; and
7	(B) whose rates and costs are, except in
8	the case of a registered electric cooperative, reg-
9	ulated by a State agency, regulatory commis-
10	sion, municipality, or public utility district.
11	(19) New entrant.—The term "new entrant"
12	means any facility that commences operation on or
13	after January 1, 2008.
14	(20) Offset allowance.—The term "offset
15	allowance" means a unit of reduction in the quantity
16	of emissions or an increase in sequestration equal to
17	1 carbon dioxide equivalent at a facility that is not
18	a covered facility, where the reduction in emissions
19	or increase in sequestration is eligible to be used as
20	an additional means of compliance for the submis-
21	sion requirements established under section 1202.
22	(21) Offset Project.—The term "offset
23	project" means a project, other than a project at a
24	covered facility, that reduces greenhouse gas emis-

sions or increases sequestration of carbon dioxide.

1	(22) Project Developer.—The term "project
2	developer" means an individual or entity imple-
3	menting an offset project.
4	(23) Retail rate for distribution serv-
5	ICE.—
6	(A) In general.—The term "retail rate
7	for distribution service" means the rate that a
8	load-serving entity charges for the use of the
9	system of the load-serving entity.
10	(B) Exclusion.—The term "retail rate
11	for distribution service" does not include any
12	energy component of the rate.
13	(24) Retire an emission allowance.—The
14	term "retire an emission allowance" means to dis-
15	qualify an emission allowance for any subsequent
16	use, regardless of whether the use is a sale, ex-
17	change, or submission of the allowance in satisfying
18	a compliance obligation.
19	(25) Reversal.—The term "reversal" means
20	an intentional or unintentional loss of sequestered
21	carbon dioxide to the atmosphere.
22	(26) Rural Electric Cooperative.—The
23	term "rural electric cooperative" means a coopera-

tively-owned association that is eligible to receive

1	loans under section 4 of the Rural Electrification
2	Act of 1936 (7 U.S.C. 904).
3	(27) Sequestered and sequestration.—
4	The terms "sequestered" and "sequestration" mean
5	the capture, permanent separation, isolation, or re-
6	moval of greenhouse gases from the atmosphere.
7	(28) STATE REGULATORY AUTHORITY.—The
8	term "State regulatory authority" means any State
9	agency that has ratemaking authority with respect
10	to the retail rate for distribution service.
11	(29) Transportation sector.—The term
12	"transportation sector" means "Transportation", as
13	that term is used in Table ES-7 of the Environ-
14	mental Protection Agency document entitled, "In-
15	ventory of U.S. Greenhouse Gas Emissions and
16	Sinks: 1990–2005".
17	TITLE I—CAPPING GREENHOUSE
18	GAS EMISSIONS
19	Subtitle A—Tracking Emissions
20	SEC. 1101. PURPOSE.
21	The purpose of this subtitle is to establish a Federal
22	greenhouse gas registry that—
23	(1) is complete, consistent, transparent, and ac-
24	curate;

1	(2) will collect reliable and accurate data that
2	can be used by public and private entities to design
3	efficient and effective energy security initiatives and
4	greenhouse gas emission reduction strategies; and
5	(3) will provide appropriate high-quality data to
6	be used for implementing greenhouse gas reduction
7	policies.
8	SEC. 1102. DEFINITIONS.
9	In this subtitle:
10	(1) AFFECTED FACILITY.—
11	(A) IN GENERAL.—The term "affected fa-
12	cility'' means—
13	(i) a covered facility;
14	(ii) another facility that emits a
15	greenhouse gas, as determined by the Ad-
16	ministrator; and
17	(iii) at the option of the Adminis-
18	trator, a vehicle fleet with emissions of
19	more than 10,000 carbon dioxide equiva-
20	lents per year, assuming no double-count-
21	ing of emissions.
22	(B) Exclusions.—The term "affected fa-
23	cility" does not include any facility that—
24	(i) is not a covered facility;

1	(ii) is owned or operated by a small
2	business (as described in part 121 of title
3	13, Code of Federal Regulations (or a suc-
4	cessor regulation)); and
5	(iii) emits fewer than 10,000 carbon
6	dioxide equivalents in any year.
7	(2) Carbon content.—The term "carbon con-
8	tent" means the quantity of carbon (in carbon diox-
9	ide equivalent) contained in a fuel.
10	(3) CLIMATE REGISTRY.—The term "Climate
11	Registry" means the greenhouse gas emissions reg-
12	istry jointly established and managed by more than
13	40 States and Indian tribes to collect high-quality
14	greenhouse gas emission data from facilities, cor-
15	porations, and other organizations to support var-
16	ious greenhouse gas emission reporting and reduc-
17	tion policies for the member States and Indian
18	tribes.
19	(4) FEEDSTOCK FOSSIL FUEL.—The term
20	"feedstock fossil fuel" means fossil fuel used as raw
21	material in a manufacturing process.
22	(5) Greenhouse gas emissions.—The term
23	"greenhouse gas emissions" means emissions of a
24	greenhouse gas, including—

1	(A) stationary combustion source emissions
2	emitted as a result of combustion of fuels in
3	stationary equipment, such as boilers, furnaces,
4	burners, turbines, heaters, incinerators, engines,
5	flares, and other similar sources;
6	(B) process emissions consisting of emis-
7	sions from chemical or physical processes other
8	than combustion;
9	(C) fugitive emissions consisting of inten-
10	tional and unintentional emissions from equip-
11	ment leaks, such as joints, seals, packing, and
12	gaskets, or from piles, pits, cooling towers, and
13	other similar sources; and
14	(D) biogenic emissions resulting from bio-
15	logical processes, such as anaerobic decomposi-
16	tion, nitrification, and denitrification.
17	(6) Indian tribe.—The term "Indian tribe"
18	has the meaning given the term in section 4 of the
19	Indian Self-Determination and Education Assistance
20	Act (25 U.S.C. 450b).
21	(7) Registry.—The term "Registry" means
22	the Federal greenhouse gas registry established
23	under section 1105(a).
24	(8) Source.—The term "source" means any
25	building, structure, installation, unit, point, oper-

1	ation, vehicle, land area, or other item that emits or
2	may emit a greenhouse gas.
3	SEC. 1103. REPORTING REQUIREMENTS.
4	(a) In General.—Subject to this section, each af-
5	fected facility shall submit to the Administrator, for inclu-
6	sion in the Registry, periodic reports, including annual
7	and quarterly data, that—
8	(1) include the quantity and type of fossil fuels
9	including feedstock fossil fuels, that are extracted
10	produced, refined, imported, exported, or consumed
11	at or by the facility;
12	(2) include the quantity of hydrofluorocarbons
13	perfluorocarbons, sulfur hexafluoride, nitrous oxide
14	carbon dioxide that has been captured and seques-
15	tered, and other greenhouse gases generated, pro-
16	duced, imported, exported, or consumed at or by the
17	facility;
18	(3) include the quantity of electricity generated
19	imported, exported, or consumed by or at the facil-
20	ity, and information on the quantity of greenhouse
21	gases emitted when the imported, exported, or con-
22	sumed electricity was generated, as determined by
23	the Administrator;
24	(4) include the aggregate quantity of all green-

house gas emissions from sources at the facility, in-

1	cluding stationary combustion source emissions
2	process emissions, and fugitive emissions;
3	(5) include greenhouse gas emissions expressed
4	in metric tons of each greenhouse gas emitted and
5	in the quantity of carbon dioxide equivalents of each
6	greenhouse gas emitted;
7	(6) include a list and description of sources of
8	greenhouse gas emissions at the facility;
9	(7) quantify greenhouse gas emissions in ac-
10	cordance with the measurement standards estab-
11	lished under section 1104;
12	(8) include other data necessary for accurate
13	and complete accounting of greenhouse gas emis-
14	sions, as determined by the Administrator;
15	(9) include an appropriate certification regard-
16	ing the accuracy and completeness of reported data,
17	as determined by the Administrator; and
18	(10) are submitted electronically to the Admin-
19	istrator, in such form and to such extent as may be
20	required by the Administrator.
21	(b) DE MINIMIS EXEMPTIONS.—
22	(1) In General.—The Administrator may de-
23	termine—
24	(A) whether certain sources at a facility
25	should be considered to be eligible for a de

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1	minimis exemption from a requirement for re-
2	porting under subsection (a); and
3	(B) the level of greenhouse gases emitted
4	from a source that would qualify for such an
5	exemption.
6	(2) Factors.—In making a determination
7	under paragraph (1), the Administrator shall con-
8	sider the availability and suitability of simplified
9	techniques and tools for quantifying emissions and
10	the cost to measure those emissions relative to the
11	purposes of this title, including the goal of collecting
12	complete and consistent facility-wide data.
13	(c) Verification of Report Required.—Before
14	including the information from a report required under
15	this section in the Registry, the Administrator shall verify
16	the completeness and accuracy of the report using infor-
17	mation provided under this section, obtained under section
18	9003(c), or obtained under other provisions of law.
19	(d) Timing.—
20	(1) Calendar years 2004 through 2007.—
21	For a baseline period of calendar years 2004
22	through 2007, each affected facility shall submit re-

quired annual data described in this section to the

Administrator not later than March 31, 2009.

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1	(2) Subsequent Calendar Years.—For cal-
2	endar year 2008 and each subsequent calendar year
3	each affected facility shall submit quarterly data de-
4	scribed in this section to the Administrator not later
5	than 60 days after the end of the applicable quarter.
6	(e) No Effect on Other Requirements.—Noth-
7	ing in this title affects any requirement in effect as of the
8	date of enactment of this Act relating to the reporting
9	of—
10	(1) fossil fuel production, refining, importation
11	exportation, or consumption data;
12	(2) greenhouse gas emission data; or
13	(3) other relevant data.
14	SEC. 1104. DATA QUALITY AND VERIFICATION.
15	(a) Protocols and Methods.—
16	(1) In general.—The Administrator shall es-
17	tablish by regulation, taking into account the work
18	done by the Climate Registry, comprehensive proto-
19	cols and methods to ensure the accuracy, complete-
20	ness, consistency, and transparency of data on
21	greenhouse gas emissions and fossil fuel production
22	refining, importation, exportation, and consumption
23	submitted to the Registry that include—

- (A) accounting and reporting standards for fossil fuel production, refining, importation, exportation, and consumption;
  - (B) a requirement that, where technologically feasible, submitted data are monitored using monitoring systems for fuel flow or emissions, such as continuous emission monitoring systems or equivalent systems of similar rigor, accuracy, quality, and timeliness;
  - (C) a requirement that, if a facility has already been directed to monitor emissions of a greenhouse gas using a continuous emission monitoring system under existing law, that system be used in complying with this Act with respect to the greenhouse gas;
  - (D) for cases in which the Administrator determines that monitoring emissions with the precision, reliability, accessibility, and timeliness similar to that provided by a continuous emission monitoring system are not technologically feasible, standardized methods for calculating greenhouse gas emissions in specific industries using other readily available and reliable information, such as fuel consumption, materials consumption, production, or other rel-

1	evant activity data, on the condition that those
2	methods do not underreport emissions, as com-
3	pared with the continuous emission monitoring
4	system;
5	(E) information on the accuracy of meas-
6	urement and calculation methods;
7	(F) methods to avoid double-counting of
8	greenhouse gas emissions;
9	(G) protocols to prevent an affected facility
10	from avoiding the reporting requirements of
11	this title; and
12	(H) protocols for verification of data sub-
13	mitted by affected facilities.
14	(2) Best practices.—The protocols and
15	methods developed under paragraph (1) shall incor-
16	porate and conform to the best practices from the
17	most recent Federal, State, and international proto-
18	cols for the measurement, accounting, reporting, and
19	verification of greenhouse gas emissions to ensure
20	the accuracy, completeness, and consistency of the
21	data.
22	(b) Verification; Information by Reporting
23	Entities.—Each affected facility shall—
24	(1) provide information sufficient for the Ad-
25	ministrator to verify, in accordance with the proto-

1	cols and methods developed under subsection (a)	
2	that the fossil fuel data and greenhouse gas emission	
3	data of the affected facility have been completely	
4	and accurately reported; and	
5	(2) ensure the submission or retention, for the	
6	5-year period beginning on the date of provision of	
7	the information, of—	
8	(A) data sources;	
9	(B) information on internal control activi-	
10	ties;	
11	(C) information on assumptions used in re-	
12	porting emissions and fuels;	
13	(D) uncertainty analyses; and	
14	(E) other relevant data and information to	
15	facilitate the verification of reports submitted to	
16	the Registry.	
17	(c) Waiver of Reporting Requirements.—The	
18	Administrator may waive reporting requirements for spe-	
19	cific facilities if the Administrator determines that suffi-	
20	cient and equally or more reliable data are available under	
21	other provisions of law.	
22	(d) Missing Data.—If information, satisfactory to	
23	the Administrator, is not provided for an affected facility,	
24	the Administrator shall—	

1	(1) prescribe methods to estimate emissions for			
2	the facility for each period for which data are miss			
3	ing, reflecting the highest emission levels that ma			
4	reasonably have occurred during the period for			
5	which data are missing; and			
6	(2) take appropriate enforcement action pursu			
7	ant to this section and section 9003(b).			
8	SEC. 1105. FEDERAL GREENHOUSE GAS REGISTRY.			
9	(a) Establishment.—The Administrator shall es-			
10	tablish a Federal greenhouse gas registry.			
11	(b) Administration.—In establishing the Registry,			
12	the Administrator shall—			
13	(1) design and operate the Registry;			
14	(2) establish an advisory body that is broadly			
15	representative of private enterprise, agriculture, en-			
16	vironmental groups, and State, tribal, and local gov-			
17	ernments to guide the development and management			
18	of the Registry;			
19	(3) provide coordination and technical assist-			
20	ance for the development of proposed protocols and			
21	methods, taking into account the duties carried out			
22	by the Climate Registry, to be published by the Ad-			
23	ministrator;			

1	(4)(A) develop an electronic format for report-
2	ing under guidelines established under section
3	1104(a)(1); and
4	(B) make the electronic format available to re-
5	porting entities;
6	(5) verify and audit the data submitted by re-
7	porting entities;
8	(6) establish consistent policies for calculating
9	carbon content and greenhouse gas emissions for
10	each type of fossil fuel reported under section 1103;
11	(7) calculate carbon content and greenhouse gas
12	emissions associated with the combustion of fossil
13	fuel data reported by reporting entities;
14	(8) immediately publish on the Internet all in-
15	formation contained in the Registry, except in any
16	case in which publishing the information would re-
17	sult in a disclosure of—
18	(A) information vital to national security,
19	as determined by the President; or
20	(B) confidential business information that
21	cannot be derived from information that is oth-
22	erwise publicly available and that would cause
23	significant calculable competitive harm if pub-
24	lished (except that information relating to

- greenhouse gas emissions shall not be considered to be confidential business information).
- 3 (c) Third-Party Verification.—The Adminis-
- 4 trator may use the services of third parties that have no
- 5 conflicts of interest to verify reports required under sec-
- 6 tion 1103.
- 7 (d) Regulations.—The Administrator shall—
- 8 (1) not later than 180 days after the date of
- 9 enactment of this Act, propose regulations to carry
- out this section; and
- 11 (2) not later than July 1, 2008, promulgate
- final regulations to carry out this section.
- 13 SEC. 1106. ENFORCEMENT.
- 14 (a) CIVIL ACTIONS.—The Administrator may bring
- 15 a civil action in United States district court against the
- 16 owner or operator of an affected facility that fails to com-
- 17 ply with any requirement of this subtitle.
- 18 (b) Penalty.—Any person that has violated or is
- 19 violating this subtitle shall be subject to a civil penalty
- 20 of not more than \$25,000 per day of each violation.

## 21 Subtitle B—Reducing Emissions

- 22 SEC. 1201. EMISSION ALLOWANCE ACCOUNT.
- 23 (a) In General.—The Administrator shall establish
- 24 a separate quantity of emission allowances for each of cal-
- 25 endar years 2012 through 2050.

- 1 (b) IDENTIFICATION NUMBERS.—The Administrator
- 2 shall assign to each emission allowance established under
- 3 subsection (a) a unique identification number that in-
- 4 cludes the calendar year for which that emission allowance
- 5 was established.
- 6 (c) Legal Status of Emission Allowances.—
- 7 (1) In general.—An emission allowance shall not be a property right.
- 9 (2) TERMINATION OR LIMITATION.—Nothing in 10 this Act or any other provision of law limits the au-11 thority of the United States to terminate or limit an 12 emission allowance.
- 13 (3) OTHER PROVISIONS UNAFFECTED.—Noth-14 ing in this Act relating to emission allowances shall 15 affect the application of, or compliance with, any 16 other provision of law to or by a covered facility.
- 17 (d) Allowances for Each Calendar Year.—The 18 numbers of emission allowances established by the Admin-19 istrator for each of calendar years 2012 through 2050 20 shall be as follows:

Calendar Year	Number of Emission Allowances (in Millions)
2012	5,200
2013	5,104
2014	5,008
2015	4,912

Calendar Year	Number of Emission Allowances (in Millions)
2016	4,816
2017	4,720
2018	4,624
2019	4,528
2020	4,432
2021	4,336
2022	4,240
2023	4,144
2024	4,048
2025	3,952
2026	3,856
2027	3,760
2028	3,664
2029	3,568
2030	3,472
2031	3,376
2032	3,280
2033	3,184
2034	3,088
2035	2,992
2036	2,896
2037	2,800
2038	2.704
2039	2,608
2040	2,512
2041	2,416
2042	2,320

Calendar Year	Number of Emission Allowances (in Millions)
2043	2,224
2044	2,128
2045	2,032
2046	1,936
2047	1,840
2048	1,744
2049	1,646
2050	1,560

#### 1 SEC. 1202. COMPLIANCE OBLIGATION.

- 2 (a) IN GENERAL.—Not later than 90 days after the
- 3 end of a calendar year, the owner or operator of a covered
- 4 facility shall submit to the Administrator an emission al-
- 5 lowance, an offset allowance awarded pursuant to subtitle
- 6 D of title II, or an international allowance or credit ob-
- 7 tained in compliance with regulations promulgated under
- 8 section 2502, for each carbon dioxide equivalent of green-
- 9 house gas that—
- 10 (1) was emitted by that facility during the pre-11 ceding year;
- 12 (2) will, assuming no capture and permanent
- geological sequestration of that gas, be emitted from
- 14 the use of any petroleum- or coal-based transpor-
- tation fuel that was produced or imported at that fa-
- cility during the preceding year; and

- 1 (3) will, assuming no capture and destruction 2 or permanent geological sequestration of that gas, be 3 emitted from any nonfuel chemical that was pro-4 duced or imported at that facility during the pre-5 ceding year.
- 6 (b) RETIREMENT OF ALLOWANCES.—Immediately
  7 upon receipt of an emission allowance under subsection
  8 (a), the Administrator shall retire the emission allowance.
- 9 (c) Determination of Compliance.—Not later 10 than July 1 of each year, the Administrator shall deter11 mine whether the owners and operators of all covered fa12 cilities are in full compliance with subsection (a) for the 13 preceding year.

#### 14 SEC. 1203. PENALTY FOR NONCOMPLIANCE.

- 15 (a) Excess Emissions Penalty.—
- 16 (1) IN GENERAL.—The owner or operator of
  17 any covered facility that fails for any year to submit
  18 to the Administrator by the deadline described in
  19 section 1202(a) or 2303, 1 or more of the emission
  20 allowances due pursuant to either of those sections
  21 shall be liable for the payment to the Administrator
  22 of an excess emissions penalty.
  - (2) AMOUNT.—The amount of an excess emissions penalty required to be paid under paragraph (1) shall be, as determined by the Administrator, an

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1	amount equal to the product obtained by multi-
2	plying—
3	(A) the number of excess emission allow-
4	ances that the owner or operator failed to sub-
5	mit; and
6	(B) the greater of—
7	(i) \$200; or
8	(ii) a dollar figure representing 3
9	times the mean market value of an emis-
10	sion allowance during the calendar year for
11	which the emission allowances were due.
12	(3) Timing.—An excess emissions penalty re-
13	quired under this subsection shall be immediately
14	due and payable to the Administrator, without de-
15	mand, in accordance with such regulations as shall
16	be promulgated by the Administrator by the date
17	that is 1 year after the date of enactment of this
18	Act.
19	(4) Deposit.—The Administrator shall deposit
20	each excess emissions penalty paid under this sub-
21	section in the Treasury of the United States.
22	(5) No effect on liability.—An excess
23	emissions penalty due and payable by the owner or
24	operator of a covered facility under this subsection
25	shall not diminish the liability of the owner or oper-

ator for any fine, penalty, or assessment against the owner or operator for the same violation under any other provision of this Act or any other law.

### (b) Excess Emission Allowance.—

- (1) In General.—The owner or operator of a covered facility that fails for any year to submit to the Administrator by the deadline described in section 1202(a) or 2303 1 or more of the emission allowances due pursuant to either of those sections shall be liable to offset the excess emissions by an equal quantity, in tons, during—
  - (A) the following calendar year; or
  - (B) such longer period as the Administrator may prescribe.

#### (2) Plan.—

- (A) In General.—Not later than 60 days after the end of the calendar year during which a covered facility emits excess emissions, the owner or operator of the covered facility shall submit to the Administrator, and to the State in which the covered facility is located, a proposed plan to achieve the required offsets for the excess emissions.
- (B) CONDITION OF OPERATION.—Upon approval of a proposed plan described in sub-

- paragraph (A) by the Administrator, the plan, as submitted, modified, or conditioned, shall be considered to be a condition of the operating permit for the covered facility, without further review or revision of the permit.
  - (C) DEDUCTION OF ALLOWANCES.—For each covered facility that, in any calendar year, emits excess emissions, the Administrator shall deduct, from emission allowances allocated to the covered facility for the calendar year, or for succeeding years during which offsets are required, emission allowances equal to the excess quantity, in tons, of the excess emissions.
- 14 (c) Prohibition.—It shall be unlawful for the owner 15 or operator of any facility liable for a penalty and offset 16 under this section to fail—
- 17 (1) to pay the penalty in accordance with this section;
- 19 (2) to provide, and thereafter comply with, a 20 proposed plan for compliance as required by sub-21 section (b)(2); and
- 22 (3) to offset excess emissions as required by subsection (b)(1).

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- 1 (d) No Effect on Other Section.—Nothing in
- 2 this subtitle limits or otherwise affects the application of
- 3 section 9003(b).

## 4 TITLE II—MANAGING AND CON-

### 5 TAINING COSTS EFFICIENTLY

## 6 Subtitle A—Trading

- 7 SEC. 2101. SALE, EXCHANGE, AND RETIREMENT OF EMIS-
- 8 SION ALLOWANCES.
- 9 Except as otherwise provided in this Act, the lawful
- 10 holder of an emission allowance may sell, exchange, trans-
- 11 fer, submit for compliance in accordance with section
- 12 1202, or retire the emission allowance.
- 13 SEC. 2102. NO RESTRICTION ON TRANSACTIONS.
- 14 The privilege of purchasing, holding, selling, exchang-
- 15 ing, and retiring emission allowances shall not be re-
- 16 stricted to the owners and operators of covered facilities.
- 17 SEC. 2103. ALLOWANCE TRANSFER SYSTEM.
- 18 (a) IN GENERAL.—Not later than 18 months after
- 19 the date of enactment of this Act, the Administrator shall
- 20 promulgate regulations to carry out the provisions of this
- 21 Act relating to emission allowances, including regulations
- 22 providing that the transfer of emission allowances shall
- 23 not be effective until such date as a written certification
- 24 of the transfer, signed by a responsible official of each

1	party to the transfer, is received and recorded by the Ad-
2	ministrator in accordance with those regulations.
3	(b) Transfers.—
4	(1) In general.—The regulations promulgated
5	under subsection (a) shall permit the transfer of al-
6	lowances prior to the issuance of the allowances.
7	(2) Deduction and addition of trans-
8	FERS.—A recorded pre-allocation transfer of allow-
9	ances shall be—
10	(A) deducted by the Administrator from
11	the number of allowances that would otherwise
12	be distributed to the transferor; and
13	(B) added to those allowances distributed
14	to the transferee.
15	SEC. 2104. ALLOWANCE TRACKING SYSTEM.
16	The regulations promulgated under section 2103(a)
17	shall include a system for issuing, recording, and tracking
18	emission allowances that shall specify all necessary proce-
19	dures and requirements for an orderly and competitive
20	functioning of the emission allowance system.
21	Subtitle B—Banking
22	SEC. 2201. INDICATION OF CALENDAR YEAR.
23	An emission allowance submitted to the Adminis-
24	trator by the owner or operator of a covered facility in
25	accordance with section 1202(a) shall not be required to

- 1 indicate in the identification number of the emission allow-
- 2 ance the calendar year for which the emission allowance
- 3 is submitted.
- 4 SEC. 2202. EFFECT OF TIME.
- 5 The passage of time shall not, by itself, cause an
- 6 emission allowance to be retired or otherwise diminish the
- 7 compliance value of the emission allowance.

# 8 Subtitle C—Borrowing

- 9 SEC. 2301. REGULATIONS.
- 10 (a) IN GENERAL.—Not later than 3 years after the
- 11 date of enactment of this Act, the Administrator shall pro-
- 12 mulgate regulations under which, subject to subsection
- 13 (b), the owner or operator of a covered facility may—
- (1) borrow emission allowances from the Ad-
- ministrator; and
- 16 (2) for a calendar year, submit borrowed emis-
- sion allowances to the Administrator in satisfaction
- of up to 15 percent of the compliance obligation
- under section 1202(a).
- 20 (b) Limitation.—An emission allowance borrowed
- 21 under subsection (a) shall be an emission allowance estab-
- 22 lished by the Administrator for a specific future calendar
- 23 year under subsection 1201(a).

#### 1 SEC. 2302. TERM.

- 2 The owner or operator of a covered facility shall not
- 3 submit, and the Administrator shall not accept, a bor-
- 4 rowed emission allowance in partial satisfaction of the
- 5 compliance obligation under section 1202(a) for any cal-
- 6 endar year that is more than 5 years earlier than the cal-
- 7 endar year included in the identification number of the
- 8 borrowed emission allowance.

#### 9 SEC. 2303. REPAYMENT WITH INTEREST.

- 10 For each borrowed emission allowance submitted in
- 11 partial satisfaction of the compliance obligation under sub-
- 12 section 1202(a) for a particular calendar year (referred
- 13 to in this section as the "use year"), the number of emis-
- 14 sion allowances that the owner or operator is required to
- 15 submit under section 1202(a) for the year from which the
- 16 borrowed emission allowance was taken (referred to in this
- 17 section as the "source year") shall be increased by an
- 18 amount equal to the product obtained by multiplying—
- 19 (1) 1.1; and
- 20 (2) the number of years beginning after the use
- year and before the source year.

## 22 Subtitle D—Offsets

- 23 SEC. 2401. OUTREACH INITIATIVE ON REVENUE ENHANCE-
- 24 MENT FOR AGRICULTURAL PRODUCERS.
- 25 (a) Establishment.—The Secretary of Agriculture,
- 26 acting through the Chief of the Natural Resources Con-

1	servation Service, the Chief of the Forest Service, the Ad-
2	ministrator of the Cooperative State Research, Education,
3	and Extension Service, and land-grant colleges and univer-
4	sities, in consultation with the Administrator and the
5	heads of other appropriate departments and agencies,
6	shall establish an outreach initiative to provide informa-
7	tion to agricultural producers, agricultural organizations,
8	foresters, and other landowners about opportunities under
9	this subtitle to earn new revenue.
10	(b) Components.—The initiative under this sec-
11	tion—
12	(1) shall be designed to ensure that, to the
13	maximum extent practicable, agricultural organiza-
14	tions and individual agricultural producers, for-
15	esters, and other landowners receive detailed prac-
16	tical information about—
17	(A) opportunities to earn new revenue
18	under this subtitle;
19	(B) measurement protocols, monitoring,
20	verifying, inventorying, registering, insuring,
21	and marketing offsets under this title;
22	(C) emerging domestic and international
23	markets for energy crops, allowances, and off-
24	sets; and

1 (D) local, regional, and national databases 2 and aggregation networks to facilitate achieve-3 ment, measurement, registration, and sales of 4 offsets; (2) shall provide— 6 (A) outreach materials, including the hand-7 book published under subsection (c), to inter-8 ested parties; 9 (B) workshops; and 10 (C) technical assistance; and 11 (3) may include the creation and development 12 of regional marketing centers or coordination with 13 existing centers (including centers within the Nat-14 ural Resources Conservation Service or the Coopera-15 tive State Research, Education, and Extension Serv-16 ice or at land-grant colleges and universities). 17 (c) Handbook.— 18 (1) IN GENERAL.—Not later than 2 years after 19 the date of enactment of this Act, the Secretary of 20 Agriculture, in consultation with the Administrator 21 and after an opportunity for public comment, shall 22 publish a handbook for use by agricultural pro-23 ducers, agricultural cooperatives, foresters, other

landowners, offset buyers, and other stakeholders

1	that provides easy-to-use guidance on achieving, re-
2	porting, registering, and marketing offsets.
3	(2) DISTRIBUTION.—The Secretary of Agri-
4	culture shall ensure, to the maximum extent prac-
5	ticable, that the handbook—
6	(A) is made available through the Internet
7	and in other electronic media;
8	(B) includes, with respect to the electronic
9	form of the handbook described in subpara-
10	graph (A), electronic forms and calculation
11	tools to facilitate the petition process described
12	in section 2404; and
13	(C) is distributed widely through land-
14	grant colleges and universities and other appro-
15	priate institutions.
16	SEC. 2402. ESTABLISHMENT OF DOMESTIC OFFSET PRO-
17	GRAM.
18	(a) Alternative Means of Compliance.—Begin-
19	ning with calendar year 2012, the owner or operator of
20	a covered entity may satisfy 15 percent of the total allow-
21	ance submission requirement of the covered entity under
22	section 1202(a) by submitting offset allowances generated
23	in accordance with this subtitle.
24	(b) Regulations Required.—Not later than 18
25	months after the date of enactment of this Act, the Ad-

- 1 ministrator, in consultation with the Secretary of Agri-
- 2 culture, shall promulgate regulations authorizing the
- 3 issuance and certification of offset allowances from certain
- 4 agricultural, forestry, and other land use-related projects
- 5 undertaken within the United States, and certain other
- 6 projects identified by the Administrator under section
- 7 2403(b)(4), including provisions that—
- 8 (1) ensure that those offsets represent real,
- 9 verifiable, additional, permanent, and enforceable re-
- ductions in greenhouse gas emissions or increases in
- 11 biological sequestration;
- 12 (2) specify the types of offset projects eligible
- to generate offset allowances, in accordance with
- 14 section 2403;
- 15 (3) establish procedures for project initiation
- and approval, in accordance with section 2404;
- 17 (4) establish procedures to monitor, quantify,
- and discount reductions in greenhouse gas emissions
- or increases in biological sequestration, in accord-
- ance with subsections (d) through (g) of section
- 21 2404;
- 22 (5) establish procedures for verification, reg-
- istration, and issuance of offset allowances, in ac-
- cordance with section 2405; and

1	(6) ensure permanence of offsets by mitigating
2	and compensating for reversals, in accordance with
3	section 2406.
4	(c) Offset Allowances Awarded.—The Adminis-
5	trator shall issue offset allowances for qualifying emission
6	reductions and biological sequestrations from offset
7	projects that satisfy the applicable requirements of this
8	subtitle.
9	(d) Ownership.—Initial ownership of an offset al-
10	lowance shall lie with a project developer, unless otherwise
11	specified in a legally-binding contract or agreement.
12	(e) Transferability.—An offset allowance gen-
13	erated pursuant to this subtitle may be sold, traded, or
14	transferred, on the conditions that—
15	(1) the offset allowance has not expired or been
16	retired or canceled; and
17	(2) liability and responsibility for mitigating
18	and compensating for reversals of registered offset
19	allowances is specified in accordance with section
20	2406(b).
21	SEC. 2403. ELIGIBLE AGRICULTURAL AND FORESTRY OFF-
22	SET PROJECT TYPES.
23	(a) In General.—Offset allowances from agricul-
24	tural, forestry, and other land use-related projects shall
25	be limited to those allowances achieving an offset of 1 or

1	more greenhouse gases by a method other than a reduc-
2	tion of combustion of greenhouse gas-emitting fuel.
3	(b) CATEGORIES OF ELIGIBLE AGRICULTURAL, FOR-
4	ESTRY, AND OTHER LAND USE-RELATED PROJECTS.—
5	Subject to the requirements promulgated pursuant to sec-
6	tion 2402(b), the types of operations eligible to generate
7	offset allowances under this subtitle include—
8	(1) agricultural and rangeland sequestration
9	and management practices, including—
10	(A) altered tillage practices;
11	(B) winter cover cropping, continuous
12	cropping, and other means to increase biomass
13	returned to soil in lieu of planting followed by
14	fallowing;
15	(C) conversion of cropland to rangeland or
16	grassland, on the condition that the land has
17	been in nonforest use for at least 10 years be-
18	fore the date of initiation of the project;
19	(D) reduction of nitrogen fertilizer use or
20	increase in nitrogen use efficiency;
21	(E) reduction in the frequency and dura-
22	tion of flooding of rice paddies; and
23	(F) reduction in carbon emissions from or-
24	ganic soils;

1	(2) changes in carbon stocks attributed to land
2	use change and forestry activities limited to—
3	(A) afforestation or reforestation of acre-
4	age not forested as of the date of enactment of
5	this Act; and
6	(B) forest management resulting in an in-
7	crease in forest stand volume;
8	(3) manure management and disposal, includ-
9	ing—
10	(A) waste aeration; and
11	(B) methane capture and combustion;
12	(4) subject to the requirements of this subtitle,
13	any other terrestrial offset practices identified by the
14	Administrator, including—
15	(A) the capture or reduction of noncovered
16	fugitive emissions;
17	(B) methane capture and combustion at
18	nonagricultural facilities; and
19	(C) other actions that result in the avoid-
20	ance or reduction of greenhouse gas emissions
21	in accordance with section 2402; and
22	(5) combinations of any of the offset practices
23	described in paragraphs (1) through (4).
24	(c) Exclusion.—A project participating in a Fed-
25	eral, State, or local cost-sharing, competitive grant, or

1	technical assistance program shall not be eligible to gen-
2	erate offset allowances under this subtitle.
3	(d) Earned Allowances.—
4	(1) In general.—Any project approved by the
5	Administrator shall earn offset allowances in propor-
6	tion to the private investment in the project, as de-
7	scribed in paragraph (2).
8	(2) Private investment.—
9	(A) In general.—Except as provided in
10	subparagraph (B), the private share of invest-
11	ment in the project shall be assumed to be 50
12	percent.
13	(B) Demonstration of investment.—
14	Subparagraph (A) shall not apply in any case
15	in which a project elects to demonstrate the pri-
16	vate share of investment in the project in ac-
17	cordance with rules established by the Adminis-
18	trator.
19	SEC. 2404. PROJECT INITIATION AND APPROVAL.
20	(a) Project Approval.—A project developer—
21	(1) may submit a petition for offset project ap-
22	proval at any time following the effective date of
23	regulations promulgated under section 2402(b); but
24	(2) may not register or issue offset allowances
25	until such approval is received and until after the

1	emission reductions or sequestrations supporting the
2	offset allowances have actually occurred.
3	(b) Petition Process.—Prior to offset registration
4	and issuance of offset allowances, a project developer shall
5	submit a petition to the Administrator, consisting of—
6	(1) a copy of the monitoring and quantification
7	plan prepared for the offset project, as described
8	under subsection (d);
9	(2) a greenhouse gas initiation certification, as
10	described under subsection (e); and
11	(3) subject to the requirements of this subtitle
12	any other information identified by the Adminis-
13	trator as necessary to meet the objectives of this
14	subtitle.
15	(c) APPROVAL AND NOTIFICATION.—
16	(1) In General.—Not later than 180 days
17	after the date on which the Administrator receives a
18	complete petition under subsection (b), the Adminis-
19	trator shall—
20	(A) determine whether the monitoring and
21	quantification plan satisfies the applicable re-
22	quirements of this subtitle;
23	(B) determine whether the greenhouse gas
24	initiation certification indicates a significant de-
25	viation in accordance with subsection $(e)(3)$ :

1	(C) notify the project developer of the de-
2	terminations under subparagraphs (A) and (B);
3	and
4	(D) issue offset allowances for approved
5	projects.
6	(2) APPEAL.—The Administrator shall establish
7	mechanisms for appeal and review of determinations
8	made under this subsection.
9	(d) Monitoring and Quantification.—
10	(1) In general.—A project developer shall
11	make use of the standardized tools and methods de-
12	scribed in this section to monitor, quantify, and dis-
13	count reductions in greenhouse gas emissions or in-
14	creases in sequestration.
15	(2) Monitoring and quantification
16	PLAN.—A monitoring and quantification plan shall
17	be used to monitor, quantify, and discount reduc-
18	tions in greenhouse gas emissions or increases in se-
19	questration as described by this subsection.
20	(3) Plan completion and retention.—A
21	monitoring and quantification plan shall be—
22	(A) completed for all offset projects prior
23	to offset project initiation; and
24	(B) retained by the project developer for
25	the duration of the offset project.

1	(4) Plan requirements.—Subject to section
2	2402, the Administrator shall specify the required
3	components of a monitoring and quantification plan,
4	including—
5	(A) a description of the offset project, in-
6	cluding project type;
7	(B) a determination of accounting periods;
8	(C) an assignment of reporting responsi-
9	bility;
10	(D) the contents and timing of public re-
11	ports, including summaries of the original data,
12	as well as the results of any analyses;
13	(E) a delineation of project boundaries,
14	based on methods and formats determined to be
15	acceptable to the Administrator;
16	(F) a description of which of the moni-
17	toring and quantification tools developed under
18	subsection (f) are to be used to monitor and
19	quantify changes in greenhouse gas fluxes or
20	carbon stocks associated with a project;
21	(G) a description of which of the standard-
22	ized methods developed under subsection (g) to
23	be used to determine additionality, estimate the
24	baseline carbon, and discount for leakage;

1	(H) based on the standardized methods
2	chosen in subparagraphs (F) and (G), a deter-
3	mination of uncertainty in accordance with sub-
4	section (h);
5	(I) what site-specific data, if any, will be
6	used in monitoring, quantification, and the de-
7	termination of discounts;
8	(J) a description of procedures for use in
9	managing and storing data, including quality-
10	control standards and methods, such as redun-
11	dancy in case records are lost; and
12	(K) subject to the requirements of this
13	subtitle, any other information identified by the
14	Administrator as being necessary to meet the
15	objectives of this subtitle.
16	(e) Greenhouse Gas Initiation Certifi-
17	CATION.—
18	(1) In general.—In reviewing a petition sub-
19	mitted under subsection (b), the Administrator shall
20	seek to exclude each activity that undermines the in-
21	tegrity of the offset program established under this
22	subtitle, such as the conversion or clearing of land

or marked change in management regime, in antici-

pation of offset project initiation.

23

1	(2) Greenhouse gas initiation certifi-
2	CATION REQUIREMENTS.—A greenhouse gas initi-
3	ation certification developed under this subsection
4	shall include—
5	(A) the estimated greenhouse gas flux or
6	carbon stock for the offset project for each of
7	the 4 complete calendar years preceding the ef-
8	fective date of the regulations promulgated
9	under section 2402(b); and
10	(B) the estimated greenhouse gas flux or
11	carbon stock for the offset project, averaged
12	across each of the 4 calendar years preceding
13	the effective date of the regulations promul-
14	gated under section 2402(b).
15	(3) Determination of Significant Devi-
16	ATION.—Based on standards developed by the Ad-
17	ministrator—
18	(A) each greenhouse gas initiation certifi-
19	cation submitted pursuant to this section shall
20	be reviewed; and
21	(B) a determination shall be made as to
22	whether, as a result of activities or behavior in-
23	consistent with the purposes of this title, a sig-
24	nificant deviation exists between the average

annual greenhouse gas flux or carbon stock and

1	the greenhouse gas flux or carbon stock for a
2	given year.
3	(f) Development of Monitoring and Quan-
4	TIFICATION TOOLS FOR AGRICULTURAL AND FORESTRY
5	Projects.—
6	(1) In general.—Subject to section 2402(b),
7	the Administrator, in consultation with the Sec-
8	retary of Agriculture, shall develop standardized
9	tools for use in the monitoring and quantification of
10	changes in greenhouse gas fluxes or carbon stocks
11	for each offset project type listed under section
12	2403(b).
13	(2) TOOL DEVELOPMENT.—The tools used to
14	monitor and quantify changes in greenhouse gas
15	fluxes or carbon stocks shall, for each project type,
16	include applicable—
17	(A) statistically-sound field and remote
18	sensing sampling methods, procedures, tech-
19	niques, protocols, or programs;
20	(B) models, factors, equations, or look-up
21	tables; and
22	(C) any other process or tool considered to
23	be acceptable by the Administrator, in consulta-
24	tion with the Secretary of Agriculture.

1	(g) Development of Accounting and Dis-
2	COUNTING METHODS.—
3	(1) In general.—The Administrator, in con-
4	sultation with the Secretary of Agriculture, shall—
5	(A) develop standardized methods for use
6	in accounting for additionality and uncertainty,
7	estimating the baseline, and discounting for
8	leakage for each offset project type listed under
9	section 2403(b); and
10	(B) require that leakage be subtracted
11	from reductions in greenhouse gas emissions or
12	increases in sequestration attributable to a
13	project.
14	(2) Additionality determination and
15	BASELINE ESTIMATION.—The standardized methods
16	used to determine additionality and establish base-
17	lines shall, for each project type, at a minimum—
18	(A) in the case of a sequestration project,
19	determine the greenhouse gas flux and carbon
20	stock on comparable land identified on the basis
21	of—
22	(i) similarity in current management
23	practices;
24	(ii) similarity of regional, State, or
25	local policies or programs; and

1	(iii) similarity in geographical and bio-
2	physical characteristics;
3	(B) in the case of an emission reduction
4	project, use as a basis emissions from pre-
5	existing or comparable facilities; and
6	(C) in the case of a sequestration project
7	or emission reduction project, specify a selected
8	time period.
9	(3) Leakage.—The standardized methods used
10	to determine and discount for leakage shall, at a
11	minimum, take into consideration—
12	(A) the scope of the offset system in terms
13	of activities and geography covered;
14	(B) the markets relevant to the offset
15	project;
16	(C) emission intensity per unit of produc-
17	tion, both inside and outside of the offset
18	project; and
19	(D) a time period sufficient in length to
20	yield a stable leakage rate.
21	(h) Uncertainty for Agricultural and For-
22	ESTRY PROJECTS.—
23	(1) In general.—The Administrator, in con-
24	sultation with the Secretary of Agriculture, shall de-
25	velop standardized methods for use in determining

1	and discounting for uncertainty for each offset
2	project type listed under section 2403(b).
3	(2) Basis.—The standardized methods used to
4	determine and discount for uncertainty shall be
5	based on—
6	(A) the robustness and rigor of the meth-
7	ods used by a project developer to monitor and
8	quantify changes in greenhouse gas fluxes or
9	carbon stocks;
10	(B) the robustness and rigor of methods
11	used by a project developer to determine
12	additionality and leakage; and
13	(C) an exaggerated proportional discount
14	that increases relative to uncertainty, as deter-
15	mined by the Administrator, to encourage bet-
16	ter measurement and accounting.
17	(i) Acquisition of New Data and Review of
18	METHODS FOR AGRICULTURAL AND FORESTRY
19	PROJECTS.—The Administrator, in consultation with the
20	Secretary of Agriculture, shall—
21	(1) establish a comprehensive field sampling
22	program to improve the scientific bases on which the
23	standardized tools and methods developed under this
24	section are based; and

1	(2) review and revise the standardized tools and
2	methods developed under this section, based on—
3	(A) validation of existing methods, proto-
4	cols, procedures, techniques, factors, equations,
5	or models;
6	(B) development of new methods, proto-
7	cols, procedures, techniques, factors, equations,
8	or models;
9	(C) increased availability of field data or
10	other datasets; and
11	(D) any other information identified by the
12	Administrator, in consultation with the Sec-
13	retary of Agriculture, that is necessary to meet
14	the objectives of this subtitle.
15	(j) Exclusion.—No activity for which any emission
16	allowances are received under subtitle G of title III shall
17	generate offset allowances under this subtitle.
18	SEC. 2405. OFFSET VERIFICATION AND ISSUANCE OF AL-
19	LOWANCES FOR AGRICULTURAL AND FOR-
20	ESTRY PROJECTS.
21	(a) In General.—Offset allowances may be claimed
22	for net emission reductions or increases in sequestration
23	annually, after accounting for any necessary discounts in
24	accordance with section 2404, by submitting a verification
25	report for an offset project to the Administrator.

1	(b) Offset Verification.—
2	(1) Scope of Verification.—A verification
3	report for an offset project shall—
4	(A) be completed by a verifier accredited in
5	accordance with paragraph (3); and
6	(B) shall be developed taking into consider-
7	ation—
8	(i) the information and methodology
9	contained within a monitoring and quan-
10	tification plan;
11	(ii) data and subsequent analysis of
12	the offset project, including—
13	(I) quantification of net emission
14	reductions or increases in sequestra-
15	tion;
16	(II) determination of
17	additionality;
18	(III) calculation of leakage;
19	(IV) assessment of permanence;
20	(V) discounting for uncertainty;
21	and
22	(VI) the adjustment of net emis-
23	sion reductions or increases in seques-
24	tration by the discounts determined
25	under clauses (II) through (V); and

1	(iii) subject to the requirements of
2	this subtitle, any other information identi-
3	fied by the Administrator as being nec-
4	essary to achieve the purposes of this sub-
5	title.
6	(2) Verification report requirements.—
7	The Administrator shall specify the required compo-
8	nents of a verification report, including—
9	(A) the quantity of offsets generated;
10	(B) the amount of discounts applied;
11	(C) an assessment of methods (and the ap-
12	propriateness of those methods);
13	(D) an assessment of quantitative errors or
14	omissions (and the effect of the errors or omis-
15	sions on offsets);
16	(E) any potential conflicts of interest be-
17	tween a verifier and project developer; and
18	(F) any other provision that the Adminis-
19	trator considers to be necessary to achieve the
20	purposes of this subtitle.
21	(3) Verifier accreditation.—
22	(A) IN GENERAL.—Not later than 18
23	months after the date of enactment of this Act
24	the Administrator shall promulgate regulations
25	establishing a process and requirements for ac-

1	creditation by a third-party verifier that has no
2	conflicts of interest.
3	(B) Public Accessibility.—Each verifier
4	meeting the requirements for accreditation in
5	accordance with this paragraph shall be listed
6	in a publicly-accessible database, which shall be
7	maintained and updated by the Administrator.
8	(c) Registration and Awarding of Offsets.—
9	(1) In general.—Not later than 90 days after
10	the date on which the Administrator receives a com-
11	plete petition required under section 2404(b), the
12	Administrator shall—
13	(A) determine whether the offsets satisfy
14	the applicable requirements of this subtitle; and
15	(B) notify the project developer of that de-
16	termination.
17	(2) Affirmative Determination.—In the
18	case of an affirmative determination under para-
19	graph (1), the Administrator shall—
20	(A) register the offset allowances in ac-
21	cordance with this subtitle; and
22	(B) issue the offset allowances.
23	(3) APPEAL AND REVIEW.—The Administrator
24	shall establish mechanisms for the appeal and review
25	of determinations made under this subsection.

1	SEC. 2406. TRACKING OF REVERSALS FOR SEQUESTRATION
2	PROJECTS.
3	(a) Reversal Certification.—
4	(1) In general.—Subject to section 2402, the
5	Administrator shall promulgate regulations requiring
6	the submission of a reversal certification for each
7	offset project on an annual basis following the reg-
8	istration of offset allowances.
9	(2) REQUIREMENTS.—A reversal certification
10	submitted in accordance with this subsection shall
11	state—
12	(A) whether any unmitigated reversal re-
13	lating to the offset project has occurred in the
14	year preceding the year in which the certifi-
15	cation is submitted; and
16	(B) the quantity of each unmitigated re-
17	versal.
18	(b) Effect on Offset Allowances.—
19	(1) Invalidity.—The Administrator shall de-
20	clare invalid all offset allowances issued for any off-
21	set project that has undergone a complete reversal.
22	(2) Partial Reversal.—In the case of an off-
23	set project that has undergone a partial reversal, the
24	Administrator shall render invalid offset allowances
25	issued for the offset project in direct proportion to
26	the degree of reversal.

- 1 (c) ACCOUNTABILITY FOR REVERSALS.—Liability 2 and responsibility for compensation of a reversal of a reg-3 istered offset allowance under subsection (a) shall lie with 4 the person that submitted the offset allowance to the Administrator for the purpose of compliance with section 1202(a), unless otherwise specified in a legally-binding 6 7 contract or agreement. 8 (d) Compensation for Reversals.—The unmitigated reversal of 1 or more registered offset allowances 10 shall require the submission of— 11 (1) an equal number of offset allowances; or 12 (2) a combination of offset allowances and 13 emission allowances equal to the unmitigated rever-14 sal. 15 (e) Adjustment of Baseline.— 16 (1) In General.—If the Administrator deter-17 mines that, as a result of activities or behavior that 18 is inconsistent with the purposes of this subtitle, a 19 significant deviation exists between the average an-20 nual greenhouse gas flux or carbon stock for a given
- subsection (a), the baseline for that project shall be adjusted by a quantity equal to the difference be-

year pursuant to the certification submitted under

24 tween—

1	(A) the estimated greenhouse gas flux or
2	carbon stock at the end of the year prior to the
3	year in which the significant deviation occurred
4	and
5	(B) the estimated greenhouse gas flux or
6	carbon stock at the end of the year in which the
7	significant deviation occurred.
8	(2) Project termination.—A project devel-
9	oper may cease participation in the domestic offset
10	program established under this subtitle at any time
11	on the condition that any registered allowances
12	awarded for increases in sequestration have been
13	compensated for by the project developer through
14	the submission of an equal number of offset allow-
15	ances.
16	SEC. 2407. EXAMINATIONS.
17	(a) REGULATIONS.—Not later than 2 years after the
18	date of enactment of this Act, the Administrator shall pro-
19	mulgate regulations governing the examination and audit-
20	ing of offset allowances.
21	(b) REQUIREMENTS.—The regulations promulgated
22	under this section shall specifically consider—
23	(1) principles for initiating and conducting ex-

24

aminations;

1	(2) the type or scope of examinations, includ-
2	ing—
3	(A) reporting and recordkeeping; and
4	(B) site review or visitation;
5	(3) the rights and privileges of an examined
6	party; and
7	(4) the establishment of an appeal process.
8	SEC. 2408. TIMING AND THE PROVISION OF OFFSET ALLOW-
9	ANCES.
10	(a) Initiation of Offset Projects.—An offset
11	project that commences operation on or after the effective
12	date of regulations promulgated under section 2407(a)
13	shall be eligible to generate offset allowances under this
14	subtitle if the offset project meets the other applicable re-
15	quirements of this subtitle.
16	(b) Pre-Existing Projects.—
17	(1) In General.—The Administrator may
18	allow for the transition into the Registry of offset
19	projects and banked offset allowances operating
20	under other Federal, State, or private reporting pro-
21	grams or registries as of the effective date of regula-
22	tions promulgated under section 2407(a) if the Ad-
23	ministrator determines that the offset projects and
24	banked offset allowances satisfy the applicable re-
25	quirements of this subtitle.

1 (2) Exception.—An offset allowance that is expired, retired, or canceled under any other offset 2 3 program, registry, or market as of the effective date 4 of regulations promulgated under section 2407(a) 5 shall be ineligible for transition into the Registry. SEC. 2409. OFFSET REGISTRY. 6 7 In addition to the requirements established by section 8 2404, an offset allowance registered under this subtitle 9 shall be accompanied in the Registry by— 10 (1) a verification report submitted pursuant to 11 section 2405(a); 12 (2) a reversal certification submitted pursuant 13 to section 2406(b); and 14 (3) subject to the requirements of this subtitle, 15 any other information identified by the Adminis-16 trator as being necessary to achieve the purposes of 17 this subtitle. 18 SEC. 2410. ENVIRONMENTAL CONSIDERATIONS. 19 (a) Coordination to Minimize Negative Ef-FECTS.—In promulgating regulations under this subtitle, 20 21 the Administrator, in consultation with the Secretary of Agriculture, shall act (including by rejecting projects, if 23 necessary) to avoid or minimize, to the maximum extent

practicable, adverse effects on human health or the envi-

1	ronment resulting from the implementation of offset
2	projects under this subtitle.
3	(b) REPORT ON POSITIVE EFFECTS.—Not later than
4	2 years after the date of enactment of this Act, the Admin-
5	istrator, in consultation with the Secretary of Agriculture,
6	shall submit to Congress a report detailing—
7	(1) the incentives, programs, or policies capable
8	of fostering improvements to human health or the
9	environment in conjunction with the implementation
0	of offset projects under this subtitle; and
1	(2) the cost of those incentives, programs, or
2	policies.
3	(e) Use of Native Plant Species in Offset
4	Projects.—Not later than 18 months after the date of
5	enactment of this Act, the Administrator, in consultation
6	with the Secretary of Agriculture, shall promulgate regula-
7	tions for the selection, use, and storage of native and non-
8	native plant materials—
9	(1) to ensure native plant materials are given
20	primary consideration, in accordance with applicable
21	Department of Agriculture guidance for use of na-
22	tive plant materials:

(2) to prohibit the use of Federal- or State-des-

ignated noxious weeds; and

23

- 1 (3) to prohibit the use of a species listed by a
- 2 regional or State invasive plant council within the
- 3 applicable region or State.

#### 4 SEC. 2411. PROGRAM REVIEW.

- 5 Not later than 5 years after the date of enactment
- 6 of this Act, and periodically thereafter, the Administrator
- 7 shall review and revise, as necessary, the regulations pro-
- 8 mulgated under this subtitle.

### 9 Subtitle E—International Credits

- 10 SEC. 2501. USE OF INTERNATIONAL ALLOWANCES OR
- 11 CREDITS.
- The owner or operator of a covered facility may sat-
- 13 isfy up to 15 percent of the allowance submission require-
- 14 ment of the covered facility under section 1202(a) by sub-
- 15 mitting allowances or credits obtained on a foreign green-
- 16 house gas emissions trading market, on the condition that
- 17 the Administrator has certified the market in accordance
- 18 with the regulations promulgated pursuant to section
- 19 2502(a).
- 20 SEC. 2502. REGULATIONS.
- 21 (a) IN GENERAL.—Not later than 2 years after the
- 22 date of enactment of this Act, the Administrator shall pro-
- 23 mulgate regulations, taking into consideration protocols
- 24 adopted in accordance with the United Nations Frame-

- 1 work Convention on Climate Change, done at New York
- 2 on May 9, 1992—
- 3 (1) approving the use under this subtitle of
- 4 credits from such foreign greenhouse gas emissions
- 5 trading markets as the regulations may establish;
- 6 and
- 7 (2) permitting the use of international credits
- 8 from the foreign country that issued the credits.
- 9 (b) REQUIREMENTS.—The regulations promulgated
- 10 under subsection (a) shall require that, in order to be ap-
- 11 proved for use under this subtitle—
- 12 (1) a credit shall have been issued by a foreign
- country pursuant to a governmental program that
- imposes mandatory absolute tonnage limits on
- greenhouse gas emissions from the foreign country,
- or 1 or more industry sectors in that country, pursu-
- ant to protocols described in subsection (a); and
- 18 (2) the governmental program be of comparable
- stringency to the program established by this Act,
- 20 including comparable monitoring, compliance, and
- 21 enforcement.
- 22 SEC. 2503. FACILITY CERTIFICATION.
- The owner or operator of a covered facility who sub-
- 24 mits an international allowance or credit under this sub-
- 25 title shall certify that the allowance or credit has not been

1	retired from use in the registry of the applicable foreign
2	country.
3	Subtitle F—Carbon Market
4	<b>Efficiency Board</b>
5	SEC. 2601. PURPOSES.
6	The purposes of this subtitle are—
7	(1) to ensure that the imposition of limits or
8	greenhouse gas emissions will not significantly harm
9	the economy of the United States; and
10	(2) to establish a Carbon Market Efficiency
11	Board to ensure the implementation and mainte-
12	nance of a stable, functioning, and efficient market
13	in emission allowances.
14	SEC. 2602. ESTABLISHMENT OF CARBON MARKET EFFI
15	CIENCY BOARD.
16	(a) Establishment.—There is established a board,
17	to be known as the "Carbon Market Efficiency Board"
18	(referred to in this subtitle as the "Board").
19	(b) Purposes.—The purposes of the Board are—
20	(1) to promote the achievement of the purposes
<b>~</b> 1	. ,
21	of this Act;
21	
	of this Act;

1	eral law might pose significant harm to the economy
2	and
3	(3) to submit to the President and Congress
4	quarterly reports—
5	(A) describing—
6	(i) the status of the emission allow-
7	ance market established under this Act;
8	(ii) the economic effects of the mar-
9	ket, regional, industrial, and consumer re-
10	sponses to the market;
11	(iii) where practicable, energy invest-
12	ment responses to the market;
13	(iv) any corrective measures that
14	should be carried out to relieve excessive
15	costs of the market; and
16	(v) plans to compensate for those
17	measures to ensure that the long-term
18	emission-reduction goals of this Act are
19	achieved;
20	(B) that are timely and succinct to ensure
21	regular monitoring of market trends; and
22	(C) that are prepared independently by the
23	Board.
24	(c) Membership.—

1	(1) Composition.—The Board shall be com-
2	posed of 7 members who are citizens of the United
3	States, to be appointed by the President, by and
4	with the advice and consent of the Senate.
5	(2) Requirements.—In appointing members
6	of the Board under paragraph (1), the President
7	shall—
8	(A) ensure fair representation of the finan-
9	cial, agricultural, industrial, and commercial
10	sectors, and the geographical regions, of the
11	United States, and include a representative of
12	consumer interests; and
13	(B) appoint not more than 1 member from
14	each such geographical region.
15	(3) Compensation.—
16	(A) In general.—A member of the Board
17	shall be compensated at a rate equal to the
18	daily equivalent of the annual rate of basic pay
19	prescribed for level II of the Executive Schedule
20	under section 5313 of title 5, United States
21	Code, for each day (including travel time) dur-
22	ing which the member is engaged in the per-
23	formance of the duties of the Board.
24	(B) Chairperson.—The Chairperson of

the Board shall be compensated at a rate equal

to the daily equivalent of the annual rate of basic pay prescribed for level I of the Executive Schedule under section 5312 of title 5, United States Code, for each day (including travel time) during which the member is engaged in the performance of the duties of the Board.

## (4) Prohibitions.—

- (A) Conflicts of interest.—An individual employed by, or holding any official relationship (including any shareholder) with, any entity engaged in the generation, transmission, distribution, or sale of energy, an individual who has any pecuniary interest in the generation, transmission, distribution, or sale of energy, or an individual who has a pecuniary interest in the implementation of this Act, shall not be appointed to the Board under this subsection.
- (B) NO OTHER EMPLOYMENT.—A member of the Board shall not hold any other employment during the term of service of the member.

# (d) Term; Vacancies.—

## (1) Term.—

(A) IN GENERAL.—The term of a member of the Board shall be 14 years, except that the

1	members first appointed to the Board shall be	
2	appointed for terms in a manner that ensures	
3	that—	
4	(i) the term of not more than 1 mem-	
5	ber shall expire during any 2-year period;	
6	and	
7	(ii) no member serves a term of more	
8	than 14 years.	
9	(B) OATH OF OFFICE.—A member shall	
10	take the oath of office of the Board by not later	
11	than 15 days after the date on which the mem-	
12	ber is appointed under subsection $(c)(1)$ .	
13	(C) Removal.—	
14	(i) IN GENERAL.—A member may be	
15	removed from the Board on determination	
16	of the President for cause.	
17	(ii) Notification.—The President	
18	shall submit to Congress a notification of	
19	any determination by the President to re-	
20	move a member of the Board for cause	
21	under clause (i).	
22	(2) Vacancies.—	
23	(A) In GENERAL.—A vacancy on the	
24	Board—	

1	(i) shall not affect the powers of the	
2	Board; and	
3	(ii) shall be filled in the same manner	
4	as the original appointment was made.	
5	(B) SERVICE UNTIL NEW APPOINTMENT.—	
6	A member of the Board the term of whom has	
7	expired or otherwise been terminated shall con-	
8	tinue to serve until the date on which a replace-	
9	ment is appointed under subparagraph (A)(ii),	
10	if the President determines that service to be	
11	appropriate.	
12	(e) Chairperson and Vice-Chairperson.—Of	
13	members of the Board, the President shall appoint—	
14	(1) 1 member to serve as Chairperson of the	
15	Board for a term of 4 years; and	
16	(2) 1 member to serve as Vice-Chairperson of	
17	the Board for a term of 4 years.	
18	G (f) MEETINGS.—	
19	(1) Initial meeting.—The Board shall hold	
20	the initial meeting of the Board as soon as prac-	
21	ticable after the date on which all members have	
22	been appointed to the Board under subsection	
23	(e)(1).	
24	(2) Presiding officer.—A meeting of the	
25	Board shall be presided over by—	

1	(A) the Chairperson;	
2	(B) in any case in which the Chairperson	
3	is absent, the Vice-Chairperson; or	
4	(C) in any case in which the Chairperson	
5	and Vice-Chairperson are absent, a chairperson	
6	pro tempore, to be elected by the members of	
7	the Board.	
8	(3) Quorum.—Four members of the Board	
9	shall constitute a quorum for a meeting of the	
10	Board.	
11	(4) OPEN MEETINGS.—The Board shall be sub-	
12	ject to section 552b of title 5, United States Code	
13	3 (commonly known as the "Government in the Sun	
14	shine Act").	
15	5 SEC. 2603. DUTIES.	
16	(a) Information Gathering.—	
17	7 (1) Authority.—The Board shall collect an	
18	analyze relevant market information to promote a	
19	full understanding of the dynamics of the emission	
20	allowance market established under this Act.	
21	(2) Information.—The Board shall gather	
22	such information as the Board determines to be ap-	
23	propriate regarding the status of the market, includ-	
24	ing information relating to—	

1	(A) emission allowance allocation and
2	availability;
3	(B) the price of emission allowances;
4	(C) macro- and micro-economic effects of
5	unexpected significant increases in emission al-
6	lowance prices, or shifts in the emission allow-
7	ance market, should those increases or shifts
8	occur;
9	(D) economic effect thresholds that could
10	warrant implementation of cost relief measures
11	described in section 2604(a) after the initial 2-
12	year period described in section 2603(d)(2);
13	(E) in the event any cost relief measures
14	described in section 2604(a) are taken, the ef-
15	fects of those measures on the market;
16	(F) maximum levels of cost relief measures
17	that are necessary to achieve avoidance of eco-
18	nomic harm and preserve achievement of the
19	purposes of this Act; and
20	(G) the success of the market in promoting
21	achievement of the purposes of this Act.
22	(b) Treatment as Primary Activity.—
23	(1) In general.—During the initial 2-year pe-
24	riod of operation of the Board, information gath-

- ering under subsection (a) shall be the primary activity of the Board.
- 3 (2) Subsequent authority.—After the 2-4 year period described in paragraph (1), the Board 5 shall assume authority to implement the cost-relief 6 measures described in section 2604(a).

## 7 (c) Study.—

- (1) In General.—During the 2-year period beginning on the date on which the emission allowance market established under this Act begins operation, the Board shall conduct a study of other markets for tradeable permits to emit covered greenhouse gases.
- (2) Report.—Not later than 180 days after the beginning of the period described in paragraph (1), the Board shall submit to Congress a report describing the status of the market, specifically with respect to volatility within the market and the average price of emission allowances during that 180-day period.

# (d) Employment of Cost Relief Measures.—

(1) IN GENERAL.—If the Board determines that the emission allowance market established under this Act poses a significant harm to the economy of the United States, the Board shall carry out such cost relief measures relating to that market as

- 1 the Board determines to be appropriate under sec-2 tion 2604(a). 3
- (2) Initial Period.—During the 2-year period beginning on the date on which the emission allow-5 ance market established under this Act begins oper-6 ation, if the Board determines that the average daily 7 closing price of emission allowances during a 180-8 day period exceeds the upper range of the estimate 9 provided under section 2605, the Board shall—
- 10 (A) increase the quantity of emission allowances that covered facilities may borrow 12 from the prescribed allocations of the covered 13 facilities for future years; and
  - (B) take subsequent action as described in section 2604(a)(2).
- 16 (3) REQUIREMENTS.—Any action carried out 17 pursuant to this subsection shall be subject to the 18 requirements of section 2604(a)(3)(B).
- 19 (e) Reports.—The Board shall submit to the President and Congress quarterly reports— 20
- 21 (1) describing the status of the emission allow-22 ance market established under this Act, the eco-23 nomic effects of the market, regional, industrial, and 24 consumer responses to the market, energy invest-25 ment responses to the market, any corrective meas-

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1	ures that should be carried out to relieve excessive	
2	costs of the market, and plans to compensate for	
3	those measures; and	
4	(2) that are prepared independently by the	
5	Board, and not in partnership with Federal agen-	
6	6 cies.	
7	SEC. 2604. POWERS.	
8	(a) Cost Relief Measures.—	
9	(1) In general.—Beginning on the day after	
10	the date of expiration of the 2-year period described	
11	in section 2603(b), the Board may carry out 1 or	
12	more of the following cost relief measures to ensure	
13	functioning, stable, and efficient markets for emis-	
14	sion allowances:	
15	(A) Increase the quantity of emission al-	
16	lowances that covered facilities may borrow	
17	from the prescribed allocations of the covered	
18	facilities for future years.	
19	(B) Expand the period during which a cov-	
20	ered facility may repay the Administrator for	
21	an emission allowance as described in subpara-	
22	graph (A).	
23	(C) Lower the interest rate at which an	
24	emission allowance may be borrowed as de-	
25	scribed in subparagraph (A).	

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1	(D) Increase the quantity of allowances or
2	credits obtained on a foreign greenhouse gas
3	emissions trading market that the owner or op-
4	erator of any covered facility may use to satisfy
5	the allowance submission requirement of the
6	covered facility under section 1202(a), on the
7	condition that the Administrator has certified
8	the market in accordance with the regulations
9	promulgated pursuant to section 2502(a).
10	(E) Increase the quantity of offset allow-
11	ances generated in accordance with subtitle D
12	that the owner or operator of any covered facil-
13	ity may use to satisfy the total allowance sub-
14	mission requirement of the covered facility
15	under section 1202(a).
16	(F) Expand the total quantity of emission
17	allowances made available to all covered facili-
18	ties at any given time by borrowing against the
19	total allowable quantity of emission allowances
20	to be provided for future years.

- (2) Subsequent actions.—On determination by the Board to carry out a cost relief measure pursuant to paragraph (1), the Board shall—
- 24 (A) allow the cost relief measure to be 25 used only during the applicable allocation year;

22

1	(B) exercise the cost relief measure incre-
2	mentally, and only as needed to avoid signifi-
3	cant economic harm during the applicable allo-
4	cation year;
5	(C) specify the terms of the relief to be
6	achieved using the cost relief measure, includ-
7	ing requirements for entity-level or national
8	market-level compensation to be achieved by a
9	specific date or within a specific time period;
10	(D) in accordance with section 2603(e),
11	submit to the President and Congress a report
12	describing the actions carried out by the Board
13	and recommendations for the terms under
14	which the cost relief measure should be author-
15	ized by Congress and carried out by Federal en-
16	tities; and
17	(E) evaluate, at the end of the applicable
18	allocation year, actions that need to be carried
19	out during subsequent years to compensate for
20	any cost relief measure carried out during the
21	applicable allocation year.
22	(3) ACTION ON EXPANSION OF BORROWING.—
23	(A) In General.—If the Board carries
24	out a cost relief measure pursuant to paragraph
25	(1) that results in the expansion of borrowing

1	of emission allowances under this Act, and if
2	the average daily closing price of emission al-
3	lowances for the 180-day period beginning on
4	the date on which borrowing is so expanded ex-
5	ceeds the upper range of the estimate provided
6	under section 2605, the Board shall increase
7	the quantity of emission allowances available for
8	the applicable allocation year in accordance
9	with this paragraph.
10	(B) REQUIREMENTS.—An increase in the
11	quantity of emission allowances under subpara-
12	graph (A) shall—
13	(i) apply to all covered facilities;
14	(ii) be allocated in accordance with
15	the applicable formulas and procedures es-
16	tablished under this Act;
17	(iii) be equal to not more than 5 per-
18	cent of the total quantity of emission al-
19	lowances otherwise available for the appli-
20	cable allocation year under this Act;
21	(iv) remain in effect only for the ap-
22	plicable allocation year;
23	(v) specify the date by which the in-
24	crease shall be repaid by covered facilities
25	through a proportionate reduction of emis-

1	sion allowances available for subsequent al-
2	location years; and
3	(vi) require the repayment under
4	clause (v) to be made by not later than the
5	date that is 15 years after the date on
6	which the increase is provided.
7	(b) Assessments.—Not more frequently than semi-
8	annually, the Board may levy on owners and operators of
9	covered facilities, in proportion to the capital stock and
10	surplus of the participants, an assessment sufficient to
11	pay the estimated expenses of the Board and the salaries
12	of members of and employees of the Board during the
13	180-day period beginning on the date on which the assess-
14	ment is levied, taking into account any deficit carried for-
15	ward from the preceding 180-day period.
16	(c) Limitations.—Nothing in this section gives the
17	Board the authority—
18	(1) to consider or prescribe entity-level petitions
19	for relief from the costs of an emission allowance al-
20	location or trading program established under Fed-
21	eral law;
22	(2) to carry out any investigative or punitive
23	process under the jurisdiction of any Federal or
24	State court:

1	(3) to interfere with, modify, or adjust any
2	emission allowance allocation scheme established
3	under Federal law; or
4	(4) to modify the total quantity of allowances
5	issued under this Act for the period of calendar
6	years 2012 through 2050.
7	SEC. 2605. ESTIMATE OF COSTS TO ECONOMY OF LIMITING
8	GREENHOUSE GAS EMISSIONS.
9	Not later than July 1, 2014, the Director of the Con-
10	gressional Budget Office, using economic and scientific
11	analyses, shall submit to Congress a report that de-
12	scribes—
13	(1) the projected price range at which emission
14	allowances are expected to trade during the 2-year
15	period of the initial greenhouse gas emission market
16	established under Federal law; and
17	(2) the projected impact of that market on the
18	economy of the United States.
19	TITLE III—ALLOCATING AND
20	DISTRIBUTING ALLOWANCES
21	Subtitle A—Early Auctions
22	SEC. 3101. ALLOCATION FOR EARLY AUCTIONS.
23	Not later than 180 days after the date of enactment
24	of this Act, the Administrator shall allocate 6 percent of
25	the emission allowances established for calendar year

- 1 2012, 4 percent of the emission allowances established for
- 2 calendar year 2013, and 2 percent of the emissions estab-
- 3 lished for calendar 2014, to the Corporation for early auc-
- 4 tioning in accordance with section 4301.

# 5 Subtitle B—Annual Auctions

- 6 SEC. 3201. ALLOCATION FOR ANNUAL AUCTIONS.
- 7 Not later than January 1, 2012, and annually there-
- 8 after through January 1, 2050, the Administrator shall
- 9 allocate to the Corporation a percentage of emission allow-
- 10 ances for that calendar year, for annual auctioning, as fol-

## 11 lows:

Calendar Year	Percentage of Emission Allowance Account Allocated to the Corporation
2012	18
2013	21
2014	24
2015	27
2016	28
2017	31
2018	33
2019	35
2020	37
2021	39
2022	41
2023	43
2024	45
2025	47

Calendar Year	Percentage of Emission Allowance Account Allocated to the Corporation
2026	49
2027	51
2028	53
2029	55
2030	57
2031	59
2032	61
2033	63
2034	65
2035	67
2036	73
2037	73
2038	73
2039	73
2040	73
2041	73
2042	73
2043	73
2044	73
2045	73
2046	73
2047	73
2048	73
2049	73
2050	73

# Subtitle C—Early Action

2	SEC. 3301. ALLOCATION.
3	Not later than 2 years after the date of enactment
4	of this Act, the Administrator shall allocate to owners or
5	operators of covered facilities, in recognition of actions of
6	the owners and operators taken since January 1, 1994,
7	that resulted in verified and credible reductions of green-
8	house gas emissions—
9	(1) 5 percent of the emission allowances estab-
10	lished for calendar year 2012;
11	(2) 4 percent of the emission allowances estab-
12	lished for calendar year 2013;
13	(3) 3 percent of the emission allowances estab-
14	lished for calendar year 2014;
15	(4) 2 percent of the emission allowances estab-
16	lished for calendar year 2015; and
17	(5) 1 percent of the emission allowances estab-
18	lished for calendar year 2016.
19	SEC. 3302. DISTRIBUTION.
20	(a) In General.—Not later than 1 year after the
21	date of enactment of this Act, the Administrator shall es-
22	tablish, by regulation, procedures and standards for use
23	in distributing, to owners and operators of covered facili-
24	ties, emission allowances allocated under section 3301.

1	(b) Consideration.—The procedures and standards
2	established under subsection (a) shall provide for consider-
3	ation of verified and credible emission reductions reg-
4	istered before the date of enactment of this Act under—
5	(1) the Climate Leaders Program, or any other
6	voluntary greenhouse gas reduction program of the
7	United States Environmental Protection Agency and
8	United States Department of Energy;
9	(2) the Voluntary Reporting of Greenhouse
10	Gases Program of the Energy Information Adminis-
11	tration;
12	(3) State or regional greenhouse gas emission
13	reduction programs that include systems for track-
14	ing and verifying the greenhouse gas emission reduc-
15	tions; and
16	(4) voluntary entity programs that resulted in
17	entity-wide reductions in greenhouse gas emissions.
18	(c) DISTRIBUTION.—Not later than 4 years after the
19	date of enactment of this Act, the Administrator shall dis-
20	tribute all emission allowances allocated under section
21	3301.
22	Subtitle D—States
23	SEC. 3401. ALLOCATION FOR ENERGY SAVINGS.
24	(a) Allocation.—Not later than January 1, 2012,
25	and annually thereafter through January 1, 2050, the Ad-

- 1 ministrator shall allocate 1 percent of the Emission Allow-2 ance Account among States that—
  - (1) have adopted regulations by not later than the date on which the allowance allocations are made, that subject regulated natural gas and electric utilities that deliver gas or electricity in the State to regulations that—
    - (A) automatically adjust the rates charged by natural gas and electric utilities to fully recover fixed costs of service without regard to whether their actual sales are higher or lower than the forecast of sales on which the tariffed rates were based; and
    - (B) make cost-effective energy-efficiency investments by investor-owned natural gas or electric utilities at least as rewarding to their shareholders, on a risk-adjusted basis for the equity capital invested, as power or energy purchases, or investments in new energy supplies or infrastructure; and
    - (2) have adopted, or whose political subdivisions have adopted, regulations by not later than the date on which allocations are made, that are as stringent as, or more stringent than, the most recent energy performance requirements of ASHRAE 90.1 and the

- 1 International Energy Conservation Code for new
- 2 buildings.
- 3 (b) Allocation for Building Efficiency.—Not
- 4 later than January 1, 2012, and annually thereafter
- 5 through January 1, 2050, the Administrator shall allocate
- 6 1 percent of the Emission Allowance Account among
- 7 States that are in compliance with section 304(c)(3) of
- 8 the Energy Conservation and Production Act (as amended
- 9 by section 5201).
- 10 (c) DISTRIBUTION.—Not later than 2 years after the
- 11 date of enactment of this Act, the Administrator shall es-
- 12 tablish procedures and standards for the distribution of
- 13 emission allowances to States in accordance with sub-
- 14 sections (a) and (b).
- 15 (d) Use.—Any State receiving emission allowances
- 16 under this section for a calendar year shall retire or use,
- 17 in 1 or more of the ways described in section 3403(c)(1),
- 18 not less than 90 percent of the emission allowances allo-
- 19 cated to the State (or proceeds of the sale of those allow-
- 20 ances) under this section for the calendar year.
- 21 SEC. 3402. ALLOCATION FOR STATES WITH PROGRAMS
- 22 THAT EXCEED FEDERAL EMISSION REDUC-
- 23 TION TARGETS.
- 24 (a) Allocation.—Not later than January 1, 2012,
- 25 and annually thereafter through January 1, 2050, the Ad-

- 1 ministrator shall allocate 2 percent of the Emission Allow-
- 2 ance Account for the year among States that have—
- 3 (1) before the date of enactment of this Act, en-
- 4 acted statewide greenhouse gas emission reduction
- 5 targets that are more stringent than the nationwide
- 6 targets established under title II; and
- 7 (2) by the time of an allocation under this sub-
- 8 section, imposed on covered facilities within the
- 9 States aggregate greenhouse gas emission limitations
- more stringent than those imposed on covered facili-
- ties under title II.
- 12 (b) DISTRIBUTION.—Not later than 2 years after the
- 13 date of enactment of this Act, the Administrator shall es-
- 14 tablish procedures and standards for use in distributing
- 15 emission allowances among States in accordance with sub-
- 16 section (a).
- 17 (c) USE.—Any State receiving emission allowances
- 18 under this section for a calendar year shall retire or use,
- 19 in 1 or more of the ways described in section 3403(c)(1),
- 20 not less than 90 percent of the emission allowances allo-
- 21 cated to the State (or proceeds of the sale of those allow-
- 22 ances) under this section for the calendar year.
- 23 SEC. 3403. GENERAL ALLOCATION.
- 24 (a) Allocation.—Subject to subsection (d)(3), not
- 25 later than January 1, 2012, and annually thereafter

1	through January 1, 2050, the Administrator shall allocate	
2	5 percent of the Emission Allowance Account for the year	
3	among States.	
4	(b) DISTRIBUTION.—The allowances available for al-	
5	location to States under subsection (a) for a calendar year	
6	shall be distributed as follows:	
7	(1) For each calendar year, ½ of the quantity	
8	of allowances available for allocation to States under	
9	subsection (a) shall be allocated among individual	
10	States based on the proportion that—	
11	(A) the expenditures of a State for the	
12	low-income home energy assistance program es-	
13	tablished under the Low-Income Home Energy	
14	Assistance Act of 1981 (42 U.S.C. 8621 et	
15	seq.) for the preceding calendar year; bears to	
16	(B) the expenditures of all States for that	
17	program for the preceding calendar year.	
18	(2) For each calendar year, ½ of the quantity	
19	of allowances available for allocation to States under	
20	subsection (a) shall be allocated among the States	
21	based on the proportion that—	
22	(A) the population of a State, as deter-	
23	mined by the most recent decennial census pre-	
24	ceding the calendar year for which the alloca-	

1	tion regulations are for the allocation year;
2	bears to
3	(B) the population of all States, as deter-
4	mined by that census.
5	(3) For each calendar year, ½ of the quantity
6	of allowances available for allocation to States under
7	subsection (a) shall be allocated among the States
8	based on the proportion that—
9	(A) the quantity of carbon dioxide that
10	would be emitted assuming that all of the coal
11	that is mined, natural gas that is processed,
12	and petroleum that is refined within the bound-
13	aries of a State during the preceding year is
14	completely combusted and that none of the car-
15	bon dioxide emissions are captured, as deter-
16	mined by the Secretary of Energy; bears to
17	(B) the aggregate quantity of carbon diox-
18	ide that would be emitted assuming that all of
19	the coal that is mined, natural gas that is proc-
20	essed, and petroleum that is refined in all
21	States for the preceding year is completely com-
22	busted and that none of the carbon dioxide
23	emissions are captured, as determined by the
24	Secretary of Energy.
25	(c) USE.—

1	(1) In general.—During any calendar year, a
2	State shall retire or use in 1 or more of the fol-
3	lowing ways not less than 90 percent of the allow-
4	ances allocated to the State (or proceeds of sale of
5	those emission allowances) under this section for
6	that calendar year:
7	(A) To mitigate impacts on low-income en-
8	ergy consumers.
9	(B) To promote energy efficiency (includ-
10	ing support of electricity and natural gas de-
11	mand reduction, waste minimization, and recy-
12	cling programs).
13	(C) To promote investment in nonemitting
14	electricity generation technology.
15	(D) To improve public transportation and
16	passenger rail service and otherwise promote re-
17	ductions in vehicle miles traveled.
18	(E) To encourage advances in energy tech-
19	nology that reduce or sequester greenhouse gas
20	emissions.
21	(F) To address local or regional impacts of
22	climate change, including the relocation of com-
23	munities displaced by the impacts of climate

change.

1	(G) To mitigate obstacles to investment by
2	new entrants in electricity generation markets
3	and energy-intensive manufacturing sectors.
4	(H) To address local or regional impacts of
5	climate change policy, including providing as-
6	sistance to displaced workers.
7	(I) To mitigate impacts on energy-intensive
8	industries in internationally competitive mar-
9	kets.
10	(J) To reduce hazardous fuels, and to pre-
11	vent and suppress wildland fire.
12	(K) To fund rural, municipal, and agricul-
13	tural water projects that are consistent with the
14	sustainable use of water resources.
15	(2) Deadline.—A State shall distribute or sell
16	allowances for use in accordance with paragraph (1)
17	by not later than 1 year before the beginning of each
18	allowance allocation year.
19	(3) Return of allowances.—Not later than
20	330 days before the beginning of each allowance al-
21	location year, a State shall return to the Adminis-
22	trator any allowances not distributed by the deadline
23	under paragraph (2).
24	(d) Program for Tribal Communities.—

- 1 (1) ESTABLISHMENT.—Not later than 3 years
  2 after the date of enactment of this Act, the Adminis3 trator, in consultation with the Secretary of the In4 terior, shall by regulation establish a program for
  5 tribal communities—
  - (A) that is designed to deliver assistance to tribal communities within the United States that face disruption or dislocation as a result of global climate change; and
  - (B) under which the Administrator shall distribute 0.5 percent of the Emission Allowance Account for each calendar among tribal governments of the tribal communities described in subparagraph (A).
  - (2) Allocation.—Beginning in the first calendar year that begins after promulgation of the regulations referred to in paragraph (1), and annually thereafter until calendar year 2050, the Administrator shall allocate 0.5 percent of the Emission Allowance Account for each calendar year to the program established under paragraph (1).
  - (3) Allocations to states.—For each calendar year for which the Administrator allocates 0.5 percent of the Emission Allowance Account to the program established under paragraph (1), the gen-

1 eral allocation for States under subsection (a) shall 2 be 4.5 percent of the Emission Allowance Account. Subtitle E—Electricity Consumers 3 4 SEC. 3501. ALLOCATION. 5 Not later than April 1, 2012, and annually thereafter through January 1, 2050, the Administrator shall allocate 6 among load-serving entities 10 percent of the Emission Al-8 lowance Account for the year. SEC. 3502. DISTRIBUTION. 10 (a) IN GENERAL.—For each calendar year, the emission allowances allocated under section 3501 shall be dis-12 tributed by the Administrator to each load-serving entity 13 based on the proportion that— 14 (1) the quantity of electricity delivered by the 15 load-serving entity during the 3 calendar years pre-16 ceding the calendar year for which the emission al-17 lowances are distributed, adjusted upward for elec-18 tricity not delivered as a result of consumer energy-19 efficiency programs implemented by the load-serving 20 entity and verified by the regulatory agency of the 21 load-serving entity; bears to 22 (2) the total quantity of electricity delivered by 23 all load-serving entities during those 3 calendar

years.

1 (b) Basis.—The Administrator shall base the deter-2 mination of the quantity of electricity delivered by a load-3 serving entity for the purpose of subsection (a) on the most recent data available in annual reports filed with the 4 Energy Information Administration of the Department of 6 Energy SEC. 3503. USE. 8 (a) IN GENERAL.—Any load-serving entity that accepts emission allowances distributed under section 3502 10 shall— 11 (1) sell each emission allowance distributed to 12 the load-serving entity by not later than 1 year after 13 receiving the emission allowance; and 14 (2) pursue fair market value for each emission 15 allowance sold in accordance with paragraph (1). 16 (b) Proceeds.—All proceeds from the sale of emission allowances under subsection (a) shall be used solely— 17 18 (1) to mitigate economic impacts on low- and 19 middle-income energy consumers, including by re-20 ducing transmission charges or issuing rebates; and 21 (2) to promote energy efficiency on the part of 22 energy consumers. 23 (c) Inclusion in Retail Rates.—To facilitate the prompt pass-through of the benefits from the sale of emis-

sion allowances to retail customers—

1	(1) any credit from the sale of allowances shall	
2	be reflected in the retail rates of a load-serving enti-	
3	ty not later than 90 days after the sale of the allow-	
4	ances;	
5	(2) the load-serving entity shall not be required	
6	to file a retail rate case in order to pass through the	
7	credit; and	
8	(3) the amount of the credit shall not be subject	
9	to review by any State regulatory authority.	
10	(d) Prohibition on Rebates.—No load-serving en-	
11	tity may use any proceeds from the sale of emission allow-	
12	ances under subsection (a) to provide to any consumer a	
13	rebate that is based on the quantity of electricity used by	
14	the consumer.	
15	SEC. 3504. REPORTING.	
16	(a) In General.—Each load-serving entity that ac-	
17	cepts emission allowances distributed under section $3502$	
18	shall, for each calendar year for which the load-serving	
19	entity accepts emission allowances, submit to the Adminis-	
20	trator a report describing—	
21	(1) the date of each sale of each emission allow-	
22	ance during the preceding year;	
23	(2) the amount of revenue generated from the	
24	sale of emission allowances during the preceding	
25	year; and	

1	(3) how, and to what extent, the load-serving
2	entity used the proceeds of the sale of the emission
3	allowances during the preceding year.
4	(b) AVAILABILITY OF REPORTS.—The Administrator
5	shall make available to the public all reports submitted
6	by any load-serving entity under subsection (b), including
7	by publishing those reports on the Internet.
8	Subtitle F—Bonus Allowances for
9	Carbon Capture and Geological
10	Sequestration
11	SEC. 3601. ALLOCATION.
12	(a) In General.—Not later than 3 years after the
13	date of enactment of this Act, the Administrator shall—
14	(1) establish a Bonus Allowance Account; and
15	(2) allocate 4 percent of the emission allow-
16	ances established for calendar years 2012 through
17	2035 to the Bonus Allowance Account.
18	(b) Initial Number of Allowances.—As of Janu-
19	ary 1, 2012, there shall be 3,932,160,000 emission allow-
20	ances in the Bonus Allowance Account.
21	SEC. 3602. QUALIFYING PROJECTS.
22	To be eligible to receive emission allowances under
23	this subtitle, a carbon capture and sequestration project
24	shall—

1	(1) comply with such criteria and procedures as
2	the Administrator may establish, including a re-
3	quirement for a minimum of an 85-percent capture
4	rate for carbon dioxide emissions on an annual basis
5	from any unit for which allowances are allocated;
6	(2) sequester in a geological formation per-
7	mitted by the Administrator for that purpose in ac-
8	cordance with regulations promulgated under section
9	1421(d) of the Safe Drinking Water Act (42 U.S.C.
10	300h(d)) carbon dioxide resulting from electric
11	power generation; and
12	(3) have begun operation during the period be-
13	ginning on January 1, 2008, and ending on Decem-
14	ber 31, 2035.
15	SEC. 3603. DISTRIBUTION.
16	Subject to section 3604, for each of calendar years
17	2012 through 2039, the Administrator shall distribute
18	emission allowances from the Bonus Allowance Account

16	Subject to section 3604, for each of calendar years
17	2012 through 2039, the Administrator shall distribute
18	emission allowances from the Bonus Allowance Account
19	to each qualifying project under this subtitle in a quantity
20	equal to the product obtained by multiplying the number
21	of metric tons of carbon dioxide geologically sequestered
22	by the project and the bonus allowance rate for that cal-
23	endar year, as provided in the following table:

Year	<b>Bonus Allowance Rate</b>
2012	4.5
2013	4.5

Year	<b>Bonus Allowance Rate</b>
2014	4.5
2015	4.5
2016	4.5
2017	4.5
2018	4.2
2019	3.9
2020	3.6
2021	3.3
2022	3.0
2023	2.7
2024	2.4
2025	2.1
2026	1.8
2027	1.5
2028	1.3
2029	1.1
2030	0.9
2031	0.7
2032	0.5
2033	0.5
2034	0.5
2035	0.5
2036	0.5
2037	0.5
2038	0.5
2039	0.5

### 1 SEC. 3604. 10-YEAR LIMIT.

- 2 A qualifying project may receive annual emission al-
- 3 lowances under this subsection only for—
- 4 (1) the first 10 years of operation; or
- 5 (2) if the unit covered by the qualifying project
- 6 began operating before January 1, 2012, the period
- 7 of calendar years 2012 through 2021.

### 8 SEC. 3605. EXHAUSTION OF BONUS ALLOWANCE ACCOUNT.

- 9 If, at the beginning of a calendar year, the Adminis-
- 10 trator determines that the number of emission allowances
- 11 remaining in the Bonus Allowance Account will be insuffi-
- 12 cient to allow the distribution, in that calendar year, of

1	the number of allowances that otherwise would be distrib-
2	uted under section 3603 for the calendar year, the Admin-
3	istrator shall, for the calendar year—
4	(1) distribute the remaining bonus allowances
5	only to qualifying projects that were already quali-
6	fying projects during the preceding calendar year;
7	(2) distribute the remaining bonus allowances
8	to those qualifying projects on a pro rata basis; and
9	(3) discontinue the program established under
10	this subtitle as of the date on which the Bonus Al-
11	lowance Account is projected to be fully used based
12	on projects already in operation.
13	Subtitle G—Domestic Agriculture
14	and Forestry
15	SEC. 3701. ALLOCATION.
16	Not later than January 1, 2012, and annually there-
17	v
	after through January 1, 2050, the Administrator shall
	after through January 1, 2050, the Administrator shall
18 19	after through January 1, 2050, the Administrator shall allocate to the Secretary of Agriculture 5 percent of the
18 19	after through January 1, 2050, the Administrator shall allocate to the Secretary of Agriculture 5 percent of the Emission Allowance Account for the calendar year for use
18 19 20	after through January 1, 2050, the Administrator shall allocate to the Secretary of Agriculture 5 percent of the Emission Allowance Account for the calendar year for use in—
18 19 20 21	after through January 1, 2050, the Administrator shall allocate to the Secretary of Agriculture 5 percent of the Emission Allowance Account for the calendar year for use in—  (1) reducing greenhouse gas emissions from the
18 19 20 21 22	after through January 1, 2050, the Administrator shall allocate to the Secretary of Agriculture 5 percent of the Emission Allowance Account for the calendar year for use in—  (1) reducing greenhouse gas emissions from the agriculture and forestry sectors of the United States

1	SEC. 3702. AGRICULTURAL AND FORESTRY GREENHOUSE
2	GAS MANAGEMENT RESEARCH.
3	(a) Report.—Not later than 1 year after the date
4	of enactment of this Act, the Secretary of Agriculture, in
5	consultation with scientific and agricultural and forestry
6	experts, shall prepare and submit to Congress a report
7	that describes the status of research on agricultural and
8	forestry greenhouse gas management, including a descrip-
9	tion of—
10	(1) research on soil carbon sequestration and
11	other agricultural and forestry greenhouse gas man-
12	agement that has been carried out;
13	(2) any additional research that is necessary;
14	(3) the proposed priority for additional re-
15	search;
16	(4) the most appropriate approaches for con-
17	ducting the additional research; and
18	(5) the manner in which carbon credits that are
19	specific to agricultural and forestry operations
20	should be valued and allotted.
21	(b) STANDARDIZED SYSTEM OF SOIL CARBON MEAS-
22	UREMENT AND CERTIFICATION FOR THE AGRICULTURAL
23	AND FORESTRY SECTORS.—
24	(1) In general.—As soon as practicable after
25	the date of enactment of this Act, the Secretary of
26	Agriculture shall establish a standardized system of

1	carbon measurement and certification for the agri-
2	cultural and forestry sectors.
3	(2) Administration.—In establishing the sys-
4	tem, the Secretary of Agriculture shall—
5	(A) create a standardized system of meas-
6	urements for agricultural and forestry green-
7	house gases; and
8	(B) delineate the most appropriate system
9	of certification of credit by public or private en-
10	tities.
11	(c) Research.—After the date of submission of the
12	report described in paragraph (1), the President and the
13	Secretary of Agriculture (in collaboration with the member
14	institutions of higher education of the Consortium for Ag-
15	ricultural Soil Mitigation of Greenhouse Gases, institu-
16	tions of higher education, and research entities) shall ini-
17	tiate a program to conduct any additional research that
18	is necessary.
19	SEC. 3703. DISTRIBUTION.
20	Taking into account the report prepared under sub-
21	section 3702(a), the Secretary of Agriculture shall estab-
22	lish, by regulation, a program under which agricultural
23	and forestry sequestration allowances may be distributed
24	to entities that carry out sequestration projects on agricul-

1	tural and forest land that achieve long-term greenhouse
2	gas emission mitigation benefits.
3	Subtitle H—International Forest
4	Protection
5	SEC. 3801. FINDINGS.
6	Congress finds that—
7	(1) land-use change and forest sector emissions
8	account for approximately 20 percent of global
9	greenhouse gas emissions;
10	(2) land conversion and deforestation are 2 of
11	the largest sources of greenhouse gas emissions in
12	the developing world, amounting to roughly 40 per-
13	cent of the total greenhouse gas emissions of the de-
14	veloping world;
15	(3) with sufficient data, deforestation rates and
16	forest carbon stocks can be measured with an ac-
17	ceptable level of uncertainty; and
18	(4) encouraging reduced deforestation and
19	other forest carbon activities in other countries
20	can—
21	(A) provide critical leverage to encourage
22	voluntary developing country participation in
23	emission limitation regimes;

1	(B) facilitate greater overall reductions in
2	greenhouse gas emissions than would otherwise
3	be practicable; and
4	(C) substantially benefit biodiversity, con-
5	servation, and indigenous and other forest-de-
6	pendent people in developing countries.
7	SEC. 3802. DEFINITION OF FOREST CARBON ACTIVITIES.
8	In this subtitle, the term "forest carbon activities"
9	means—
10	(1) activities directed at reducing greenhouse
11	gas emissions from deforestation and forest degrada-
12	tion in countries other than the United States; and
13	(2) activities directed at increasing sequestra-
14	tion of carbon through restoration of forests, and de-
15	graded land in countries other than the United
16	States that has not been forested prior to restora-
17	tion, afforestation, and improved forest manage-
18	ment, that meet the eligibility requirements promul-
19	gated under section 3804(a).
20	SEC. 3803. ALLOCATION.
21	Not later than January 1, 2012, and annually there-
22	after through January 1, 2050, the Administrator shall
23	allocate and distribute 3 percent of the Emission Allow-
24	ance Account for the calendar year for use in carrying out

1	forest carbon activities in countries other than the United
2	States.
3	SEC. 3804. DEFINITION AND ELIGIBILITY REQUIREMENTS.
4	(a) Eligibility Requirements for Forest Car-
5	BON ACTIVITIES.—Not later than 2 years after the date
6	of enactment of this Act, the Administrator, in consulta-
7	tion with the Secretary of the Interior, the Secretary of
8	State, and the Secretary of Agriculture, shall promulgate
9	eligibility requirements for forest carbon activities directed
10	at sequestration of carbon through restoration of forests
11	and degraded land, afforestation, and improved forest
12	management in countries other than the United States,
13	including requirements that those activities be—
14	(1) carried out and managed in accordance with
15	widely-accepted environmentally sustainable forestry
16	practices; and
17	(2) designed—
18	(A) to promote native species and restora-
19	tion of native forests, where practicable; and
20	(B) to avoid the introduction of invasive
21	nonnative species.
22	(b) QUALITY CRITERIA FOR FOREST CARBON ALLO-
23	CATIONS.—Not later than 2 years after the date of enact-
24	ment of this Act, the Administrator, in consultation with
25	the Secretary of the Interior, the Secretary of State, and

1	the Secretary of Agriculture, shall promulgate regulations
2	establishing the requirements for eligibility to receive al-
3	lowances under this section, including requirements that
4	ensure that the emission reductions or sequestrations are
5	real, permanent, additional, and verifiable, with reliable
6	measuring and monitoring and appropriate accounting for
7	leakage.
8	SEC. 3805. INTERNATIONAL FOREST CARBON ACTIVITIES.
9	(a) In General.—The Administrator, in consulta-
10	tion with the Secretary of State, shall identify and periodi-
11	cally update a list of countries that have—
12	(1) demonstrated capacity to participate in
13	international forest carbon activities, including—
14	(A) sufficient historical data on changes in
15	national forest carbon stocks;
16	(B) technical capacity to monitor and
17	measure forest carbon fluxes with an acceptable
18	level of uncertainty; and
19	(C) institutional capacity to reduce emis-
20	sions from deforestation and degradation;
21	(2) capped greenhouse gas emissions or other-
22	wise established a national emission reference sce-
23	nario based on historical data; and
24	(3) commenced an emission reduction program
25	for the forest sector.

1	(b) Crediting and Additionality.—
2	(1) REDUCTION IN DEFORESTATION AND FOR-
3	EST DEGRADATION.—A verified reduction in green-
4	house gas emissions from deforestation and forest
5	degradation under a cap or from a nationwide emis-
6	sions reference scenario described in subsection (a)
7	shall be—
8	(A) eligible for crediting; and
9	(B) considered to satisfy the additionality
10	criterion.
11	(2) Periodic review of national level re-
12	DUCTIONS IN DEFORESTATION AND DEGRADA-
13	TION.—The Administrator, in consultation with the
14	Secretary of State, shall identify and periodically up-
15	date a list of countries described in subsection (a)
16	that have—
17	(A) achieved national-level reductions of
18	deforestation and degradation below a historical
19	reference scenario, taking into consideration the
20	average annual deforestation and degradation
21	rates of the country and of all countries during
22	a period of at least 5 years; and
23	(B) demonstrated those reductions using
24	remote sensing technology that meets inter-
25	national standards.

1	(3) Other forest carbon activities.—A
2	forest carbon activity, other than a reduction in de-
3	forestation or forest degradation, shall be eligible for
4	crediting, subject to the quality criteria for forest
5	carbon credits identified in this Act or in regulations
6	promulgated under this Act.
7	(c) RECOGNITION OF CREDITS.—With respect to
8	countries other than countries described in subsection (a),
9	the Administrator—
10	(1) shall recognize credits from forest carbon
11	activities, subject to the quality criteria for forest
12	carbon credits identified in this Act and regulations
13	promulgated under this Act; and
14	(2) is encouraged to identify other incentives,
15	including economic and market-based incentives, to
16	encourage developing countries with largely-intact
17	native forests to protect those forests.
18	SEC. 3806. REVIEWS AND DISCOUNT.
19	(a) Reviews.—Not later than 3 years after the date
20	of enactment of this Act, and 5 years thereafter, the Ad-
21	ministrator shall conduct a review of the credit program
22	under this subtitle.
23	(b) DISCOUNT.—If, after the date that is 10 years
24	after the date of enactment of this Act, the Administrator
25	determines that foreign countries that, in the aggregate,

- 1 generate greenhouse gas emissions accounting for more
- 2 than 0.5 percent of global greenhouse gas emissions have
- 3 not capped those emissions, established emissions ref-
- 4 erence scenarios based on historical data, or otherwise re-
- 5 duced total forest emissions, the Administrator may apply
- 6 a discount to forest carbon credits imported into the
- 7 United States from those countries.

# 8 Subtitle I—Covered Facilities

- 9 SEC. 3901. ALLOCATION.
- Not later than April 1, 2012, and annually thereafter
- 11 through January 1, 2035, the Administrator shall allocate
- 12 percentages of the Emission Allowance Account for the
- 13 calendar year to owners or operators of covered facilities
- 14 within the electric power sector and the industrial sector,
- 15 as follows:

Calendar	Percentage of Emission Allowance Account Allo- cated to the Electric Power Sector	Percentage of Emission Allowance Account Allo- cated to the Industrial Sector
2012	20	20
2013	20	20
2014	20	20
2015	20	20
2016	20	20
2017	19	19
2018	18	18
2019	17	17
2020	16	16
2021	15	15

Calendar	Percentage of Emission Allowance Account Allo- cated to the Electric Power Sector	Percentage of Emission Allowance Account Allo- cated to the Industrial Sector
2022	14	14
2023	13	13
2024	12	12
2025	11	11
2026	10	10
2027	9	9
2028	8	8
2029	7	7
2030	6	6
2031	5	5
2032	4	4
2033	3	3
2034	2	2
2035	1	1

#### 1 SEC. 3902. DISTRIBUTION SYSTEM.

- 2 Not later than 1 year after the date of enactment
- 3 of this Act, the Administrator shall establish a system for
- 4 distributing to covered facilities within the electric power
- 5 and industrial sectors the emission allowances allocated
- 6 under section 3901.

#### 7 SEC. 3903. DISTRIBUTING EMISSION ALLOWANCES WITHIN

- 8 THE ELECTRIC POWER SECTOR.
- 9 (a) New Entrants.—
- 10 (1) IN GENERAL.—As part of the system estab-
- lished under section 3902, the Administrator shall,
- for each calendar year, set aside, from the quantity
- of emission allowances represented by the percent-

- ages described in the table contained in section 3901 for the electric power sector, a quantity of emission allowances for distribution to new entrant covered electric power sector facilities.
  - (2) CALCULATION OF ALLOWANCES.—The quantity of emission allowances distributed by the Administrator for a calendar year to a new covered electric power sector facility under paragraph (1) shall be equal to the product obtained by multiplying—
    - (A) the average greenhouse gas emission rate of all covered electric power sector facilities that commenced operations during the 5 years preceding the date of enactment of this Act; and
    - (B) the electricity generated by the facility during the calendar year, adjusted downward on a pro rata basis for each new facility in the event that insufficient allowances are available under section 3901 for a calendar year.
- 21 (b) Facilities Owned by a Rural Electric Co-22 operative.—
- 23 (1) IN GENERAL.—As part of the system estab-24 lished under section 3902, the Administrator shall, 25 for each calendar year, set aside, from the quantity

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- of emission allowances represented by the percentages described in the table contained in section 3901 for the electric power sector, a quantity of emission allowances for distribution to covered electric power sector facilities that are owned or operated by a rural electric cooperative.
  - (2) CALCULATION OF ALLOWANCES.—The quantity of emission allowances distributed by the Administrator in a calendar year under paragraph (1) to a covered electric power sector facility that is owned or operated by a rural electric cooperative shall be equal to the quantity of carbon dioxide equivalents that the covered electric power sector facility emitted during calendar year 2006.

### (c) Incumbents.—

(1) In General.—As part of the system established under section 3902, the Administrator shall, for each calendar year, distribute to covered electric power sector facilities (other than facilities owned or operated by a rural electric cooperative) that were operating during the calendar year preceding the year in which this Act was enacted the emission allowances represented by the percentages described in the table contained in section 3901 for the electric

1	power sector that remain after the distribution of
2	emission allowances under subsections (a) and (b).
3	(2) CALCULATION OF ALLOWANCES.—The
4	quantity of emission allowances distributed to a cov-
5	ered electric power sector facility under paragraph
6	(1) shall be equal to the product obtained by multi-
7	plying—
8	(A) the quantity of emission allowances
9	available for distribution under paragraph (1);
10	and
11	(B) the quotient obtained by dividing—
12	(i) the annual average quantity of car-
13	bon dioxide equivalents emitted by the cov-
14	ered electric power sector facility during
15	the 3 calendar years preceding the date of
16	enactment of this Act; by
17	(ii) the annual average of the aggre-
18	gate quantity of carbon dioxide equivalents
19	emitted by all covered electric power sector
20	facilities during those 3 calendar years.
21	SEC. 3904. DISTRIBUTING EMISSION ALLOWANCES WITHIN
22	THE INDUSTRIAL SECTOR.
23	(a) New Entrants.—
24	(1) In general.—As part of the system estab-
25	lished under section 3902, the Administrator shall,

- for each calendar year, set aside, from the quantity of emission allowances represented by the percentages described in the table contained in section 3901 for the industrial sector, a quantity of emission allowances for distribution to new entrant covered industrial sector facilities.
  - (2) CALCULATION OF ALLOWANCES.—The quantity of emission allowances distributed by the Administrator in a calendar year to a new covered industrial sector facility under paragraph (1) shall be calculated pursuant to such formula as shall be established under the system established under section 3902.

#### (b) Incumbers.—

(1) In General.—As part of the system established under section 3902, the Administrator shall, for each calendar year, distribute to covered industrial sector facilities that were operating during the calendar year preceding the year in which this Act was enacted the emission allowances represented by the percentages described in the table contained in section 3901 for the industrial sector that remain after the distribution of emission allowances under subsection (a).

1	(2) CALCULATION OF ALLOWANCES.—The
2	quantity of emission allowances distributed to a cov-
3	ered industrial sector facility under paragraph (1)
4	shall be equal to the product obtained by multi-
5	plying—
6	(A) the quantity of emission allowances
7	available for distribution under paragraph (1);
8	and
9	(B) the quotient obtained by dividing—
10	(i) the annual average quantity of car-
11	bon dioxide equivalents emitted by the cov-
12	ered industrial sector facility during the 3
13	calendar years preceding the date of enact-
14	ment of this Act; by
15	(ii) the annual average of the aggre-
16	gate quantity of carbon dioxide equivalents
17	emitted by all covered industrial sector fa-
18	cilities during those 3 calendar years.
19	(c) REVOCATION OF DISTRIBUTION UPON FACILITY
20	Shutdown.—If a covered facility within the industrial
21	sector receives a distribution of emission allowances under
22	this section for a calendar year and is subsequently perma-
23	nently shut down during that calendar year, the owner or
24	operator of the facility shall promptly return to the Ad-

1	ministrator a number of emission allowances equal to the
2	difference between—
3	(1) the number of carbon dioxide equivalents
4	emitted by the facility in that calendar year prior to
5	the shutdown; and
6	(2) the number of emission allowances distrib-
7	uted to the facility by the Administrator for that cal-
8	endar year.
9	TITLE IV—AUCTIONS AND USES
10	OF AUCTION PROCEEDS
11	Subtitle A—Funds
12	SEC. 4101. ESTABLISHMENT.
13	There are established in the Treasury of the United
14	States the following funds:
15	(1) The Energy Assistance Fund.
16	(2) The Climate Change Worker Training
17	Fund.
18	(3) The Adaptation Fund.
19	(4) The Climate Change and National Security
20	Fund.
21	SEC. 4102. AMOUNTS IN FUNDS.
22	Each Fund established by section 4101 shall consist
23	of such amounts as are appropriated to the respective
24	Fund under section 4103.

#### 1 SEC. 4103. TRANSFERS TO FUNDS.

- 2 There are appropriated to each Fund established by
- 3 section 4101, out of funds of the Treasury not otherwise
- 4 appropriated, amounts equivalent to amounts deposited in
- 5 each respective Fund under section 4302(b)(2).

# 6 Subtitle B—Climate Change Credit

# 7 Corporation

- 8 SEC. 4201. ESTABLISHMENT.
- 9 (a) In General.—There is established, as a non-
- 10 profit corporation without stock, a corporation to be
- 11 known as the "Climate Change Credit Corporation".
- 12 (b) Treatment.—The Corporation shall not be con-
- 13 sidered to be an agency or establishment of the Federal
- 14 Government.
- 15 SEC. 4202. APPLICABLE LAWS.
- 16 The Corporation shall be subject to this title and, to
- 17 the extent consistent with this title, the District of Colum-
- 18 bia Business Corporation Act (D.C. Code section 29-301
- 19 et seq.).
- 20 SEC. 4203. BOARD OF DIRECTORS.
- 21 (a) In General.—The Corporation shall have a
- 22 board of directors composed of 5 individuals who are citi-
- 23 zens of the United States, of whom 1 shall be elected an-
- 24 nually by the board to serve as Chairperson.

- 1 (b) POLITICAL AFFILIATION.—Not more than 3
- 2 members of the board serving at any time may be affili-
- 3 ated with the same political party.
- 4 (c) APPOINTMENT AND TERM.—A member of the
- 5 board shall be appointed by the President, by and with
- 6 the advice and consent of the Senate, for a term of 5
- 7 years.
- 8 (d) Quorum.—Three members of the board shall
- 9 constitute a quorum for a meeting of the board of direc-
- 10 tors.

## 11 Subtitle C—Auctions

- 12 SEC. 4301. EARLY AUCTIONS.
- 13 (a) Initiation of Auctioning.—Not later than 1
- 14 year after the date of enactment of this Act, the Corpora-
- 15 tion shall begin auctioning the emission allowances allo-
- 16 cated to the Corporation under section 3101.
- 17 (b) Completion of Auctioning.—Not later than
- 18 December 31, 2011, the Corporation shall complete auc-
- 19 tioning of all allowances allocated to the Corporation
- 20 under section 3101.
- 21 (c) PROCEEDS FROM EARLY AUCTIONING.—The
- 22 Corporation shall use to carry out programs established
- 23 under subtitle D all proceeds of early auctioning conducted
- 24 by the Corporation under this section.

## 1 SEC. 4302. ANNUAL AUCTIONS.

2	(a) In General.—Not later than 30 days after the
3	beginning of a calendar year identified in the table con-
4	tained in section 3201, and annually thereafter through
5	calendar year 2050, the Corporation shall auction all of
6	the allowances allocated to the Corporation for that year
7	by the Administrator under section 3201.
8	(b) Proceeds From Annual Auctioning.—
9	(1) IN GENERAL.—For each of calendar years
10	2012 through 2050, the Corporation shall use to
11	carry out the programs established under subtitle D
12	55 percent of the proceeds from annual auctions
13	that the Corporation conducts for the calendar year
14	under this section.
15	(2) Deposit of funds.—For each of calendar
16	years 2012 through 2050, the Corporation shall,
17	subject to subtitle H, deposit into the following
18	Funds established by section 4101 the following per-
19	centages of the proceeds from auctions that the Cor-

Energy Assistance Fund	20
Climate Change Worker Training Fund	5
Adaptation Fund	20

poration conducts for the calendar year under this

section:

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# Subtitle D—Energy Technology Deployment

2	Deployment
3	SEC. 4401. IN GENERAL.
4	For each calendar year, the Corporation shall use the
5	amounts described in section 4301(c) and 4302(b) to
6	carry out the programs established under this subtitle, as
7	follows:
8	(1) Not more than 45 percent of the funds shall
9	be used to carry out the zero- or low-carbon energy
10	technologies program under section 4402.
11	(2) Not more than 35 percent of the funds shall
12	be used as follows:
13	(A) Not more than 28 percent shall be
14	used to carry out the advanced coal and seques-
15	tration technologies program under section
16	4403.
17	(B) Not more than 7 percent shall be used
18	to carry out the cellulosic biomass ethanol tech-
19	nology deployment programs under section
20	4404.
21	(3) Not more than 20 percent shall be used to
22	carry out the advanced technology vehicles manufac-
23	turing incentive program under section 4405.

## 1 SEC. 4402. ZERO- OR LOW-CARBON ENERGY TECHNOLOGIES

2	DEPLOYMENT.
3	(a) Definitions.—In this section:
4	(1) Energy savings.—The term "energy sav-
5	ings" means megawatt-hours of electricity or million
6	British thermal units of natural gas saved by a
7	product, in comparison to projected energy consump-
8	tion under an energy-efficiency standard applicable
9	to the product.
10	(2) High-efficiency consumer product.—
11	The term "high-efficiency consumer product" means
12	a covered product to which an energy conservation
13	standard applies under section 325 of the Energy
14	Policy and Conservation Act (42 U.S.C. 6295), if
15	the energy efficiency of the product exceeds the en-
16	ergy efficiency required under the standard.
17	(3) Zero- or low-carbon generation.—The
18	term "zero- or low-carbon generation" means gen-
19	eration of electricity by an electric generation unit
20	that—
21	(A) emits no carbon dioxide into the at-
22	mosphere, or is fossil-fuel fired and emits into
23	the atmosphere not more than 250 pounds of
24	carbon dioxide per megawatt-hour (after adjust-
25	ment for any carbon dioxide from the unit that
26	is geologically sequestered); and

1	(B) was placed into commercial service
2	after the date of enactment of this Act.
3	(b) Financial Incentives Program.—During each
4	fiscal year beginning on or after October 1, 2008, the Cor-
5	poration shall competitively award financial incentives
6	under this subsection in the technology categories of—
7	(1) the production of electricity from new zero-
8	or low-carbon generation; and
9	(2) the manufacture of high-efficiency consumer
10	products.
11	(c) Requirements.—
12	(1) In General.—The Corporation shall make
13	awards under this section to producers of new zero-
14	or low-carbon generation and to manufacturers of
15	high-efficiency consumer products—
16	(A) in the case of producers of new zero-
17	or low-carbon generation, based on the bid of
18	each producer in terms of dollars per megawatt-
19	hour of electricity generated; and
20	(B) in the case of manufacturers of high-
21	efficiency consumer products, based on the bid
22	of each manufacturer in terms of dollars per
23	megawatt-hour or million British thermal units
24	saved.
25	(2) Acceptance of bids.—

1	(A) In General.—In making awards
2	under this subsection, the Corporation shall—
3	(i) solicit bids for reverse auction from
4	appropriate producers and manufacturers,
5	as determined by the Corporation; and
6	(ii) award financial incentives to the
7	producers and manufacturers that submit
8	the lowest bids that meet the requirements
9	established by the Corporation.
10	(B) Factors for conversion.—
11	(i) In general.—For the purpose of
12	assessing bids under subparagraph (A), the
13	Corporation shall specify a factor for con-
14	verting megawatt-hours of electricity and
15	million British thermal units of natural
16	gas to common units.
17	(ii) Requirement.—The conversion
18	factor shall be based on the relative green-
19	house gas emission benefits of electricity
20	and natural gas conservation.
21	(d) Forms of Awards.—
22	(1) Zero- and low-carbon generators.—
23	An award for zero- or low-carbon generation under
24	this subsection shall be in the form of a contract to
25	provide a production payment for each year during

1	the first 10 years of commercial service of the gen-
2	eration unit in an amount equal to the product ob-
3	tained by multiplying—
4	(A) the amount bid by the producer of the
5	zero- or low-carbon generation; and
6	(B) the megawatt-hours estimated to be
7	generated by the zero- or low-carbon generation
8	unit each year.
9	(2) High-efficiency consumer products.—
10	An award for a high-efficiency consumer product
11	under this subsection shall be in the form of a lump
12	sum payment in an amount equal to the product ob-
13	tained by multiplying—
14	(A) the amount bid by the manufacturer of
15	the high-efficiency consumer product; and
16	(B) the energy savings during the pro-
17	jected useful life of the high-efficiency consumer
18	product, not to exceed 10 years, as determined
19	by the Corporation.
20	SEC. 4403. ADVANCED COAL AND SEQUESTRATION TECH-
21	NOLOGIES PROGRAM.
22	(a) Advanced Coal Technologies.—
23	(1) Definition of advanced coal genera-
24	TION TECHNOLOGY.—In this subsection, the term

"advanced coal generation technology" means ad-
vanced a coal-fueled power plant technology that—
(A) achieves a minimum efficiency of 30
percent with respect to higher heating value of
the feedstock, after all parasitic requirements
for carbon dioxide capture and compression to
2,000 pounds per square inch absolute have
been subtracted;
(B) provides for the capture and geological
sequestration of at least 85 percent of carbon
dioxide produced at the facility, as determined
by the Corporation; and
(C) has an emission rate of not more than
250 pounds of carbon dioxide per megawatt-
hour of net electricity generation, after sub-
tracting the carbon dioxide that is captured and
sequestered.
(2) Demonstration projects.—The Cor-
poration shall use not less than 1/4 of the amounts
made available to carry out this section for each fis-
cal year to support demonstration projects using ad-
vanced coal generation technology, including retrofit
technology that could be deployed on existing coal
generation facilities.

(3) Deployment incentives.—

1	(A) IN GENERAL.—The Corporation shall
2	use not less than ½ of the amounts made avail-
3	able to carry out this subsection for each fiscal
4	year to provide Federal financial incentives to
5	facilitate the deployment of not more than 20
6	gigawatts of advanced coal generation tech-
7	nologies.
8	(B) Administration.—In providing in-
9	centives under this paragraph, the Corporation
10	shall—
11	(i) provide appropriate incentives for
12	regulated investor-owned utilities, munic-
13	ipal utilities, electric cooperatives, and
14	independent power producers, as deter-
15	mined by the Secretary of Energy; and
16	(ii) ensure that a range of the domes-
17	tic coal types is employed in the facilities
18	that receive incentives under this para-
19	graph.
20	(C) Funding requirements.—
21	(i) SEQUESTRATION ACTIVITIES.—The
22	Corporation shall provide incentives only to
23	projects that will capture and sequester at
24	least 85 percent of the carbon dioxide pro-
25	duced by the project facilities.

1	(ii) Storage agreement re-
2	QUIRED.—The Corporation shall require a
3	binding storage agreement for the carbon
4	dioxide captured in a project under this
5	subsection, in a geological storage project
6	permitted by the Administrator under reg-
7	ulations promulgated pursuant to section
8	1421(d) of the Safe Drinking Water Act
9	(42 U.S.C. 300h(d)).
10	(iii) Projects using certain
11	COALS.—In providing incentives under this
12	paragraph, the Corporation shall set aside
13	not less than 25 percent of any amounts
14	made available to carry out this subsection
15	for projects using lower-rank coals, such as
16	subbituminous coal and lignite.
17	(4) Distribution of funds.—A project that
18	receives an award under this subsection may elect 1
19	of the following Federal financial incentives:
20	(A) A loan guarantee.
21	(B) A cost-sharing grant to cover the in-
22	cremental cost of installing and operating car-
23	bon capture and storage equipment (for which
24	utilization costs may be covered for the first 10
25	years of operation).

- 1 (C) Production payments of not more than
  2 1.5 cents per kilowatt-hour of electric output
  3 during the first 10 years of commercial service
  4 of the project.
  - (5) LIMITATION.—A project may not receive an award under this subsection if the project receives an award under section 4402.

### (b) SEQUESTRATION.—

- (1) IN GENERAL.—The Corporation shall use not less than ½ of the amounts made available to carry out this subsection for each fiscal year for large-scale geological carbon storage demonstration projects that store carbon dioxide captured from facilities for the generation of electricity using coal gasification or other advanced coal combustion processes, including facilities that receive assistance under subsection (a).
- (2) Project capital and operating costs.—The Corporation shall provide assistance under this paragraph to reimburse the project owner for a percentage of the incremental project capital and operating costs of the project that are attributable to carbon capture and sequestration, as the Secretary determines to be appropriate.

## $1\;$ SEC. 4404. FUEL FROM CELLULOSIC BIOMASS.

2	(a) In General.—The Corporation shall provide de-
3	ployment incentives under this section to encourage a vari-
4	ety of projects to produce transportation fuels from cel-
5	lulosic biomass, relying on different feedstocks in different
6	regions of the United States.
7	(b) Project Eligibility.—Incentives under this
8	section shall be provided on a competitive basis to projects
9	that produce fuels that—
10	(1) meet United States fuel and emission speci-
11	fications;
12	(2) help diversify domestic transportation en-
13	ergy supplies; and
14	(3) improve or maintain air, water, soil, and
15	habitat quality, and protect scarce water supplies.
16	(c) Incentives.—Incentives under this section may
17	consist of—
18	(1) loan guarantees for the construction of pro-
19	duction facilities and supporting infrastructure; or
20	(2) production payments through a reverse auc-
21	tion in accordance with subsection (d).
22	(d) REVERSE AUCTION.—
23	(1) In General.—In providing incentives
24	under this section, the Corporation shall—

1	(A) prescribe rules under which producers
2	of fuel from cellulosic biomass may bid for pro-
3	duction payments under subsection (c)(2); and
4	(B) solicit bids from producers of different
5	classes of transportation fuel, as the Corpora-
6	tion determines to be appropriate.
7	(2) REQUIREMENT.—The rules under section
8	4402 shall require that incentives shall be provided
9	to the producers that submit the lowest bid (in
10	terms of cents per gallon gasoline equivalent) for
11	each class of transportation fuel from which the Cor-
12	poration solicits a bid.
13	SEC. 4405. ADVANCED TECHNOLOGY VEHICLES MANUFAC-
13 14	SEC. 4405. ADVANCED TECHNOLOGY VEHICLES MANUFACTURING INCENTIVE PROGRAM.
14	TURING INCENTIVE PROGRAM.
14 15	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:
<ul><li>14</li><li>15</li><li>16</li></ul>	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) ADVANCED TECHNOLOGY VEHICLE.—The
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) ADVANCED TECHNOLOGY VEHICLE.—The term "advanced technology vehicle" means a hybrid
14 15 16 17 18	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) ADVANCED TECHNOLOGY VEHICLE.—The term "advanced technology vehicle" means a hybrid or advanced diesel light duty motor vehicle that
14 15 16 17 18	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) ADVANCED TECHNOLOGY VEHICLE.—The term "advanced technology vehicle" means a hybrid or advanced diesel light duty motor vehicle that meets—
14 15 16 17 18 19 20	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) Advanced technology vehicle" weans a hybrid or advanced technology vehicle" means a hybrid or advanced diesel light duty motor vehicle that meets—  (A) the Tier II Bin 5 emission standard
14 15 16 17 18 19 20 21	TURING INCENTIVE PROGRAM.  (a) DEFINITIONS.—In this section:  (1) ADVANCED TECHNOLOGY VEHICLE.—The term "advanced technology vehicle" means a hybrid or advanced diesel light duty motor vehicle that meets—  (A) the Tier II Bin 5 emission standard established in rules prescribed by the Adminis-

1	(B) any new emission standard for fine
2	particulate matter prescribed by the Adminis-
3	trator under that Act; and
4	(C) at least 125 percent of the average
5	base year combined fuel economy, calculated on
6	an energy-equivalent basis, for vehicles of a
7	substantially similar footprint.
8	(2) Combined fuel economy.—The term
9	"combined fuel economy" means—
10	(A) the combined city-highway miles per
11	gallon values, as reported in accordance with
12	section 32908 of title 49, United States Code;
13	and
14	(B) in the case of an electric drive vehicle
15	with the ability to recharge from an off-board
16	source, the reported mileage, as determined in
17	a manner consistent with the Society of Auto-
18	motive Engineers recommended practice for
19	that configuration, or a similar practice rec-
20	ommended by the Secretary of Energy, using a
21	petroleum equivalence factor for the off-board
22	electricity (as defined by the Secretary of En-
23	erov)

1	(3) Engineering integration costs.—The
2	term "engineering integration costs" includes the
3	cost of engineering tasks relating to—
4	(A) incorporating qualifying components
5	into the design of advanced technology vehicles;
6	and
7	(B) designing new tooling and equipment
8	for production facilities that produce qualifying
9	components or advanced technology vehicles.
10	(4) QUALIFYING COMPONENT.—The term
11	"qualifying component" means a component that the
12	Secretary of Energy determines to be—
13	(A) specially designed for advanced tech-
14	nology vehicles; and
15	(B) installed for the purpose of meeting
16	the performance requirements of advanced tech-
17	nology vehicles as specified in subparagraphs
18	(A), (B), and (C) of paragraph (1).
19	(b) Manufacturer Facility Conversion
20	AWARDS.—The Corporation shall provide facility conver-
21	sion funding awards under this subsection to automobile
22	manufacturers and component suppliers to pay up to 30
23	percent of the cost of—
24	(1) reequipping or expanding an existing manu-
25	facturing facility to produce—

1	(A) qualifying advanced technology vehi-
2	cles; or
3	(B) qualifying components; and
4	(2) engineering integration of qualifying vehi-
5	cles and qualifying components.
6	(e) Period of Availability.—An award under sub-
7	section (b) shall apply to—
8	(1) facilities and equipment placed in service
9	after the date of enactment of this Act and before
10	January 1, 2016; and
11	(2) engineering integration costs incurred after
12	the date of enactment of this Act.
	Subtitle F Francy Congument
13	Subtitle E—Energy Consumers
13 14	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.
14	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.
14 15	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, with-
14 15 16 17	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, with-
14 15 16 17	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the
14 15 16 17	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the following programs in the following proportions:
14 15 16 17 18	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the following programs in the following proportions:  (1) 50 percent of the funds to the low-income
14 15 16 17 18 19 20	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the following programs in the following proportions:  (1) 50 percent of the funds to the low-income home energy assistance program established under
14 15 16 17 18 19 20	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the following programs in the following proportions:  (1) 50 percent of the funds to the low-income home energy assistance program established under the Low Income Home Energy Assistance Act of
14 15 16 17 18 19 20 21	SEC. 4501. PROPORTIONS OF FUNDING AVAILABILITY.  All funds deposited into the Energy Assistance Fund established by section 4101 shall be made available, without further appropriation or fiscal year limitation, to the following programs in the following proportions:  (1) 50 percent of the funds to the low-income home energy assistance program established under the Low Income Home Energy Assistance Act of 1981 (42 U.S.C. 8621 et seq.).

1	Conservation and Production Act (42 U.S.C. 6861
2	et seq.).
3	(3) 25 percent of the funds to the rural energy
4	assistance program described in section 4502.
5	SEC. 4502. RURAL ENERGY ASSISTANCE PROGRAM.
6	The Secretary of Energy shall carry out a program
7	to use the funds made available under section 4501(3) to
8	provide financial assistance to promote the availability of
9	reasonably-priced electricity in off-grid rural regions in
10	which electricity prices exceed 150 percent of the national
11	average, as determined by the Secretary of Energy.
12	Subtitle F—Climate Change
13	<b>Worker Training Program</b>
14	SEC. 4601. FUNDING.
15	All funds deposited into the Climate Change Worker
16	Training Fund established by section 4101 shall be made
17	available, without further appropriation or fiscal year limi-
18	tation, to carry out the programs established under this
19	subtitle.
20	SEC. 4602. PURPOSES.
21	The purposes of this subtitle are—
	p p p o o o o o
22	(1) to provide quality job training to any work-

	10J
1	(2) to provide assistance in the form of tem-
2	porary wages and health care benefits to workers in
3	training;
4	(3) to transition workers into jobs created as a
5	result of this Act;
6	(4) to provide skilled workers to enterprises de-
7	veloping and marketing advanced technologies and
8	practices that reduce greenhouse gas emissions of
9	the United States; and
10	(5) to provide funding for State worker training
11	programs.
12	SEC. 4603. ESTABLISHMENT.
13	Not later than 180 days after the date of enactment
14	of this Act, the Secretary of Labor, in consultation with
15	the Administrator and the Secretary of Energy, shall es-
16	tablish a climate change worker training program that
17	achieves the purposes of this subtitle.
18	SEC. 4604. GRANTS TO STATES.
19	Not later than 1 year after the date of enactment
20	of this Act, the Secretary of Labor shall establish a pro-
21	gram to award grants to States, for use in funding State
22	worker training programs, based on the impact of this Act
23	on the workforce of each State, as determined by the Sec-

24 retary of Labor.

	SEC. 4605. TYPES OF ASSISTANCE.
2	The types of assistance that workers may receive
3	under the climate change worker training program shall
4	include, as determined by the Secretary of Labor—
5	(1) income replacement;
6	(2) health care credits;
7	(3) travel costs incidental to participation in a
8	training program under this subtitle; and
9	(4) a portion of the cost of relocating to a new
10	job.
11	Subtitle G—Adaptation Program
12	for Natural Resources in United
13	States and Territories
14	SEC. 4701. DEFINITIONS.
15	In this subtitle:
15 16	In this subtitle:  (1) ECOLOGICAL PROCESS.—
16	(1) Ecological process.—
16 17	(1) Ecological process.—  (A) In general.—The term "ecological
16 17 18	<ul><li>(1) Ecological process.—</li><li>(A) In general.—The term "ecological process" means a biological, chemical, or phys-</li></ul>
16 17 18 19	(1) Ecological process.—  (A) In general.—The term "ecological process" means a biological, chemical, or physical interaction between the biotic and abiotic
16 17 18 19 20	(1) Ecological process.—  (A) In general.—The term "ecological process" means a biological, chemical, or physical interaction between the biotic and abiotic components of an ecosystem.
116 117 118 119 220 221	<ul> <li>(1) Ecological process.—</li> <li>(A) In general.—The term "ecological process" means a biological, chemical, or physical interaction between the biotic and abiotic components of an ecosystem.</li> <li>(B) Inclusions.—The term "ecological"</li> </ul>
16 17 18 19 20 21	<ul> <li>(1) Ecological process.—</li> <li>(A) In general.—The term "ecological process" means a biological, chemical, or physical interaction between the biotic and abiotic components of an ecosystem.</li> <li>(B) Inclusions.—The term "ecological process" includes—</li> </ul>
116 117 118 119 220 221 222 223	<ul> <li>(1) Ecological process.—</li> <li>(A) In general.—The term "ecological process" means a biological, chemical, or physical interaction between the biotic and abiotic components of an ecosystem.</li> <li>(B) Inclusions.—The term "ecological process" includes— <ul> <li>(i) nutrient cycling;</li> </ul> </li> </ul>

1	(v) gene flow;
2	(vi) larval dispersal and settlement;
3	(vii) hydrological eyeling;
4	(viii) decomposition; and
5	(ix) disturbance regimes, such as fire
6	and flooding.
7	(2) FISH AND WILDLIFE.—The term "fish and
8	wildlife" means—
9	(A) any species of wild fauna, including
10	fish and other aquatic species; and
11	(B) any fauna in a captive breeding pro-
12	gram the object of which is to reintroduce indi-
13	viduals of a depleted indigenous species into
14	previously occupied range.
15	(3) Habitat.—The term "habitat" means the
16	physical, chemical, and biological properties that are
17	used by wildlife (including aquatic and terrestrial
18	plant communities) for growth, reproduction, and
19	survival, food, water, cover, and space, on a tract of
20	land, in a body of water, or in an area or region.
21	(4) Indian tribe.—The term "Indian tribe"
22	has the meaning given the term in section 4 of the
23	Indian Self-Determination and Education Assistance
24	Act (25 U.S.C. 450b).

1	(5) Plant.—The term "plant" means any spe-
2	cies of wild flora.
3	(6) Secretary.—The term "Secretary" means
4	the Secretary of the Interior.
5	(7) State.—The term "State" means—
6	(A) a State;
7	(B) the District of Columbia;
8	(C) the Commonwealth of Puerto Rico;
9	and
10	(D) any other territory or possession of the
11	United States.
12	SEC. 4702. ADAPTATION FUND.
13	(a) In General.—All amounts deposited in the Ad-
14	aptation Fund established by section 4101 shall be made
15	available, without further appropriation or fiscal year limi-
16	tation, to carry out activities (including research and edu-
17	cation activities) that assist fish and wildlife, fish and
18	wildlife habitat, plants, and associated ecological processes
19	in adapting to and surviving the impacts of climate change
20	(referred to in this subtitle as "adaptation activities") pur-
21	suant to this subtitle.
22	(b) DEPARTMENT OF THE INTERIOR.—Of the
23	amounts made available to carry out this subtitle—
24	(1) 40 percent shall be allocated to the Sec-
25	retary, and subsequently made available to States

1	through the Wildlife Conservation and Restoration
2	Account established under section 3(a)(2) of the
3	Pittman-Robertson Wildlife Restoration Act (16
4	U.S.C. 669b(a)(2)), to carry out adaptation activi-
5	ties in accordance with comprehensive wildlife con-
6	servation strategies and, where appropriate, other
7	fish and wildlife conservation strategies, including—
8	(A) plans under the National Fish Habitat
9	Initiative of the National Fish and Wildlife
10	Foundation;
11	(B) North American Wetlands Conserva-
12	tion Act (16 U.S.C. 4401 et seq.);
13	(C) the Federal, State, and local partner-
14	ship known as "Partners in Flight";
15	(D) coastal zone management plans;
16	(E) regional fishery management plans;
17	and
18	(F) recovery plans for threatened and en-
19	dangered species under section 6 of the Endan-
20	gered Species Act of 1973 (16 U.S.C. 1535);
21	(2) 20 percent shall be allocated to the Sec-
22	retary for use in funding adaptation activities car-
23	ried out—
24	(A) under endangered species, migratory
25	bird, and other fish and wildlife programs ad-

1	ministered by the United States Fish and Wild-
2	life Service;
3	(B) on wildlife refuges and other public
4	land under the jurisdiction of the United States
5	Fish and Wildlife Service, Bureau of Land
6	Management, or National Park Service; or
7	(C) within Federal water managed by the
8	Bureau of Reclamation; and
9	(3) 5 percent shall be allocated to the Secretary
10	for adaptation activities carried out under coopera-
11	tive grant programs, including—
12	(A) the Tribal Wildlife Grants program of
13	the United States Fish and Wildlife Service;
14	(B) the cooperative endangered species
15	conservation fund authorized under section 6(i)
16	of the Endangered Species Act of 1973 (16
17	U.S.C. 1535(i));
18	(C) programs under the North American
19	Wetlands Conservation Act (16 U.S.C. 4401 et
20	seq.);
21	(D) the Land and Water Conservation
22	Fund established under section 2 of the Land
23	and Water Conservation Fund Act of 1965 (16
24	U.S.C. 460l–5);

1	(E) the multinational species conservation
2	fund established under the heading "MULTI-
3	NATIONAL SPECIES CONSERVATION FUND" of
4	title I of the Department of the Interior and
5	Related Agencies Appropriations Act, 1999 (16
6	U.S.C. 4246);
7	(F) the Neotropical Migratory Bird Con-
8	servation Fund established by section 9(a) of
9	the Neotropical Migratory Bird Conservation
10	Act (16 U.S.C. 6108(a));
11	(G) the Coastal Program of the United
12	States Fish and Wildlife Service; and
13	(H) the National Fish Habitat Action
14	Plan.
15	(c) Forest Service.—Of the amounts made avail-
16	able each fiscal year to carry out this subtitle, 5 percent
17	shall be allocated to the Secretary of Agriculture for use
18	in funding adaptation activities carried out on National
19	Forests and National Grasslands under the jurisdiction of
20	the Forest Service.
21	(d) Environmental Protection Agency.—Of the
22	amounts made available to carry out this subtitle, 12.5
23	percent shall be allocated to the Administrator for use in
24	restoring and protecting—

1	(1) large-scale freshwater aquatic ecosystems,
2	such as the Everglades, the Great Lakes, Flathead
3	Lake, the Missouri River, and the Yellowstone River;
4	and
5	(2) large-scale estuarine ecosystems, such as
6	Chesapeake Bay and Long Island Sound.
7	(e) Corps of Engineers.—Of the amounts made
8	available to carry out this subtitle, 12.5 percent shall be
9	allocated to the Corps of Engineers for use in restoring—
10	(1) large-scale freshwater aquatic ecosystems,
11	such as the ecosystems described in subsection
12	(d)(1); and
13	(2) large-scale estuarine ecosystems, such as
14	Chesapeake Bay, California Bay Delta, Coastal Lou-
15	isiana, Long Island Sound, and Puget Sound.
16	(f) DEPARTMENT OF COMMERCE.—Of the amounts
17	made available to carry out this subtitle, 5 percent shall
18	be allocated to the Secretary of Commerce for use in fund-
19	ing adaptation activities carried out in protecting and re-
20	storing coastal, estuarine, coral, and marine species and
21	habitats, including adaptation activities in cooperative
22	grant programs such as—
23	(1) the Coastal and Estuarine Land Conserva-
24	tion Program and the Community-Based Restoration

1	Program of the National Oceanic and Atmospheric
2	Administration; and
3	(2) programs under the Coastal Zone Manage-
4	ment Act of 1972 (16 U.S.C. 1451 et seq.).
5	(g) Cost Sharing.—Notwithstanding any other pro-
6	vision of law, a State or Indian tribe that receives a grant
7	under this section shall be required to provide 10 percent
8	of the costs of each activity carried out using funds from
9	the grant.
10	(h) Comprehensive Adaptation Strategy.—
11	(1) In general.—Effective beginning on the
12	date that is 18 months after the date of enactment
13	of this Act, funds made available to the Federal
14	agencies under this subtitle shall be used only for
15	activities that are consistent with a comprehensive
16	adaptation strategy that—
17	(A) is jointly approved by the head of each
18	of the Federal agencies, after—
19	(i) consultation with States and In-
20	dian tribes; and
21	(ii) solicitation of public and inde-
22	pendent scientific input; and
23	(B) describes the manner in which the
24	Federal Government will assist fish and wildlife,
25	fish and wildlife habitat, plants, and associated

1	ecological processes in adapting to and sur-
2	viving the impacts of climate change.
3	(2) UPDATING.—Each adaptation strategy de-
4	scribed in paragraph (1) shall be updated at least
5	every 5 years.
6	Subtitle H—Climate Change and
7	<b>National Security Program</b>
8	SEC. 4801. INTERAGENCY CLIMATE CHANGE AND NA-
9	TIONAL SECURITY COUNCIL.
10	(a) Establishment.—There is established a Cli-
11	mate Change and National Security Council (referred to
12	in this subtitle as the "Council").
13	(b) Membership.—The Council shall include—
14	(1) the Secretary of State, who shall serve as
15	Chairperson of the Council;
16	(2) the Administrator;
17	(3) the Secretary of Defense; and
18	(4) the Director of National Intelligence.
19	(c) Duties.—The Council shall—
20	(1) submit annual reports to the President, the
21	Committees on Environment and Public Works and
22	Foreign Relations of the Senate, and the Commit-
23	tees on Energy and Commerce and Foreign Rela-
24	tions of the House of Representatives that de-
25	scribe—

1	(A) the extent to which other countries are
2	committing to reducing greenhouse gas emis-
3	sions through mandatory programs;
4	(B) the extent to which global climate
5	change, through the potential negative impacts
6	of climate change on sensitive populations and
7	natural resources in different regions of the
8	world, may threaten, cause, or exacerbate polit-
9	ical instability or international conflict in those
10	regions; and
11	(C) the ramifications of any potentially de-
12	stabilizing impacts climate change may have on
13	the national security of the United States, in-
14	cluding—
15	(i) the creation of refugees; and
16	(ii) international or intranational con-
17	flicts over water, food, land, or other re-
18	sources; and
19	(2) include in each annual report submitted
20	under paragraph (1) recommendations on whether it
21	is necessary to enhance the national security of the
22	United States by funding programs with amounts
23	made available under section 4802 that the Council
24	determines would assist in avoiding the politically

1	destabilizing impacts of climate change in volatile re-
2	gions of the world.
3	SEC. 4802. FUNDING.
4	Upon a determination for any calendar year by the
5	President, based on any report and recommendations sub-
6	mitted by the Council under section 4801, that funds
7	should be made available to carry out the recommenda-
8	tions—
9	(1) notwithstanding section 4302(b)(2), the
10	Corporation shall deposit 5 percent of the proceeds
11	from auctions that the Corporation conducts for that
12	calendar year under section 4302(a) into the Cli-
13	mate Change and National Security Fund estab-
14	lished by section 4101; and
15	(2) the President shall use those funds to im-
16	plement the recommendations.
17	Subtitle I—Audits
18	SEC. 4901. REVIEW AND AUDIT BY COMPTROLLER GEN-
19	ERAL OF THE UNITED STATES.
20	Not later than January 1, 2014, and at least every
21	3 years thereafter, the Comptroller General of the United
22	States shall review and audit the expenditures under this
23	title to determine the efficacy of the programs, expendi-
24	tures, and projects funded under this title.

## 1 TITLE V—ENERGY EFFICIENCY

# 2 Subtitle A—Appliance Efficiency

3	SEC. 5101. RESIDENTIAL BOILERS.
4	Section 325(f) of the Energy Policy and Conservation
5	Act (42 U.S.C. 6925(f)) is amended—
6	(1) in the subsection heading, by inserting
7	"AND BOILERS" after "FURNACES";
8	(2) in paragraph (1), by striking "except that"
9	and all that follows through subparagraph (A) and
10	inserting "except that";
11	(3) in subparagraph (B)—
12	(A) by striking "(B) the Secretary" and
13	inserting "the Secretary"; and
14	(B) by redesignating clauses (i) through
15	(iii) as subparagraphs (A) through (C), respec-
16	tively, and indenting appropriately;
17	(4) by redesignating paragraph (3) as para-
18	graph (4); and
19	(5) by inserting after paragraph (2) the fol-
20	lowing:
21	"(3) Boilers.—
22	"(A) In general.—Subject to subpara-
23	graphs (B) and (C), boilers manufactured on or
24	after September 1, 2012, shall meet the fol-
25	lowing requirements:

Boiler Type Requirements	Minimum Annual Fuel Utilization Efficiency	Design
Gas hot water	82 percent	No constant burning pilot, automatic means for adjust- ing water temperature
Gas steam	80 percent	No constant burning pilot
Oil hot water	84 percent	Automatic means for adjusting temperature
Oil steam	82 percent	None
Electric hot water	None	Automatic means for adjusting temperature
Electric steam	None	None

## "(B) AUTOMATIC MEANS FOR ADJUSTING

#### WATER TEMPERATURE.—

"(i) IN GENERAL.—The manufacturer shall equip each gas, oil, and electric hot water boiler (other than a boiler equipped with tankless domestic water heating coils) with an automatic means for adjusting the temperature of the water supplied by the boiler to ensure that an incremental change in inferred heat load produces a corresponding incremental change in the temperature of water supplied.

"(ii) CERTAIN BOILERS.—For a boiler that fires at 1 input rate, the requirements of this subparagraph may be satisfied by providing an automatic means that allows the burner or heating element to fire only when the means has determined that the

1	inferred heat load cannot be met by the re-
2	sidual heat of the water in the system.
3	"(iii) No inferred heat load.—
4	When there is no inferred heat load with
5	respect to a hot water boiler, the automatic
6	means described in clauses (i) and (ii)
7	shall limit the temperature of the water in
8	the boiler to not more than 140 degrees
9	Fahrenheit.
10	"(iv) Operation.—A boiler described
11	in clause (i) or (ii) shall be operable only
12	when the automatic means described in
13	clauses (i), (ii), and (iii) is installed.
14	"(C) Exception.—A boiler that is manu-
15	factured to operate without any need for elec-
16	tricity, any electric connection, any electric
17	gauges, electric pumps, electric wires, or electric
18	devices of any sort, shall not be required to
19	meet the requirements of this subsection.".
20	SEC. 5102. REGIONAL VARIATIONS IN HEATING OR COOL-
21	ING STANDARDS.
22	(a) In General.—Section 327 of the Energy Policy
23	and Conservation Act (42 U.S.C. 6297) is amended—
24	(1) by redesignating subsections (e), (f), and
25	(g) as subsections (f), (g), and (h), respectively; and

1	(2) by inserting after subsection (d) the fol-
2	lowing:
3	"(e) REGIONAL STANDARDS FOR SPACE HEATING
4	AND AIR CONDITIONING PRODUCTS.—
5	"(1) Standards.—
6	"(A) IN GENERAL.—The Secretary may es-
7	tablish regional standards for space heating and
8	air conditioning products, other than window-
9	unit air-conditioners and portable space heaters.
10	"(B) NATIONAL MINIMUM AND REGIONAL
11	STANDARDS.—For each space heating and air
12	conditioning product, the Secretary may estab-
13	lish—
14	"(i) a national minimum standard;
15	and
16	"(ii) 2 more stringent regional stand-
17	ards for regions determined to have signifi-
18	cantly differing climatic conditions.
19	"(C) Maximum savings.—Any standards
20	established for a region under subparagraph
21	(B)(ii) shall achieve the maximum level of en-
22	ergy savings that are technically feasible and
23	economically justified within that region.
24	"(D) ECONOMIC JUSTIFIABILITY STUDY—

1	"(i) In general.—As a preliminary
2	step in determining the economic justifi-
3	ability of establishing a regional standard
4	under subparagraph (B)(ii), the Secretary
5	shall conduct a study involving stake-
6	holders, including—
7	"(I) a representative from the
8	National Institute of Standards and
9	Technology;
10	"(II) representatives of non-
11	governmental advocacy organizations;
12	"(III) representatives of product
13	manufacturers, distributors, and in-
14	stallers;
15	"(IV) representatives of the gas
16	and electric utility industries; and
17	"(V) such other individuals as
18	the Secretary may designate.
19	"(ii) Requirements.—The study
20	under this subparagraph—
21	"(I) shall determine the potential
22	benefits and consequences of pre-
23	scribing regional standards for heat-
24	ing and cooling products; and

1	"(II) may, if favorable to the
2	standards, constitute the evidence of
3	economic justifiability required under
4	this Act.
5	"(E) REGIONAL BOUNDARIES.—Regional
6	boundaries used in establishing regional stand-
7	ards under subparagraph (B)(ii) shall—
8	"(i) conform to State borders; and
9	"(ii) include only contiguous States
10	(other than Alaska and Hawaii), except
11	that on the request of a State, the Sec-
12	retary may divide the State to include a
13	part of the State in each of 2 regions.
14	"(2) Noncomplying products.—If the Sec-
15	retary establishes standards for a region, it shall be
16	unlawful under section 332 to offer for sale at retail,
17	sell at retail, or install within the region products
18	that do not comply with the applicable standards.
19	"(3) Distribution in commerce.—
20	"(A) IN GENERAL.—Except as provided in
21	subparagraph (B), no product manufactured in
22	a manner that complies with a regional stand-
23	ard established under paragraph (1) shall be
24	distributed in commerce without a prominent
25	label affixed to the product that includes—

1	"(i) at the top of the label, in print of
2	not less than 14-point type, the following
3	statement: 'It is a violation of Federal law
4	for this product to be installed in any
5	State outside the region shaded on the
6	map printed on this label.';
7	"(ii) below the notice described in
8	clause (i), an image of a map of the United
9	States with clearly defined State bound-
10	aries and names, and with all States in
11	which the product meets or exceeds the
12	standard established pursuant to para-
13	graph (1) shaded in a color or a manner
14	as to be easily visible without obscuring the
15	State boundaries and names; and
16	"(iii) below the image of the map re-
17	quired under clause (ii), the following
18	statement: 'It is a violation of Federal law
19	for this label to be removed, except by the
20	owner and legal resident of any single-fam-
21	ily home in which this product is in-
22	stalled.'.
23	"(B) Energy-efficiency rating.—A
24	product manufactured that meets or exceeds all
25	regional standards established under this para-

1	graph shall bear a prominent label affixed to
2	the product that includes at the top of the label,
3	in print of not less than 14-point type, the fol-
4	lowing statement: 'This product has achieved an
5	energy-efficiency rating under Federal law al-
6	lowing its installation in any State.'.
7	"(4) Recordkeeping.—A manufacturer of
8	space heating or air conditioning equipment subject
9	to regional standards established under this sub-
10	section shall—
11	"(A) obtain and retain records on the in-
12	tended installation locations of the equipment
13	sold; and
14	"(B) make such records available to the
15	Secretary on request.".
16	(b) Conforming Amendments.—Section 327 of the
17	Energy Policy and Conservation Act (42 U.S.C. 6297) is
18	amended—
19	(1) in subsection (b)—
20	(A) in paragraph (2), by striking "sub-
21	section (e)" and inserting "subsection (f)"; and
22	(B) in paragraph (3)—
23	(i) by striking "subsection (f)(1)" and
24	inserting "subsection $(g)(1)$ ": and

1	(ii) by striking "subsection (f)(2)"
2	and inserting "subsection (g)(2)"; and
3	(2) in subsection (c)(3), by striking "subsection
4	(f)(3)" and inserting "subsection (g)(3)".
5	Subtitle B—Building Efficiency
6	SEC. 5201. UPDATING STATE BUILDING ENERGY EFFI-
7	CIENCY CODES.
8	Section 304 of the Energy Conservation and Produc-
9	tion Act (42 U.S.C. 6833) is amended to read as follows:
10	"SEC. 304. UPDATING STATE BUILDING ENERGY EFFI-
11	CIENCY CODES.
12	"(a) UPDATES.—
13	"(1) In General.—The Secretary shall sup-
14	port updating the national model building energy
15	codes and standards not later than 3 years after the
16	date of enactment of the America's Climate Security
17	Act of 2007, and not less frequently every 3 years
18	thereafter, to achieve overall energy savings, as com-
19	pared to the IECC (2006) for residential buildings
20	and ASHRAE Standard 90.1 (2004) for commercial
21	buildings, of at least—
22	"(A) 30 percent by 2010;
23	"(B) 50 percent by 2020; and
24	"(C) goals to be established by the Sec-
25	retary in intermediate and subsequent years, at

1	the maximum level of energy efficiency that is
2	technologically feasible and lifecycle cost effec-
3	tive.
4	"(2) Revisions to IECC and Ashrae.—
5	"(A) IN GENERAL.—If the IECC or
6	ASHRAE Standard 90.1 regarding building en-
7	ergy use is revised, not later than 180 days
8	after the date of the revision, the Secretary
9	shall determine whether the revision will—
10	"(i) improve energy efficiency in
11	buildings; and
12	"(ii) meet the energy savings goals de-
13	scribed in paragraph (1).
14	"(B) Modifications.—
15	"(i) IN GENERAL.—If the Secretary
16	makes a determination under subpara-
17	graph (A)(ii) that a code or standard does
18	not meet the energy savings goals estab-
19	lished under paragraph (1) or if a national
20	model code or standard is not updated for
21	more than 3 years, not later than 1 year
22	after the determination or the expiration of
23	the 3-year period, the Secretary shall pro-
24	pose a modified code or standard that
25	meets the energy savings goals.

1	"(ii) Requirements.—
2	"(I) Energy savings.—A modi-
3	fication to a code or standard under
4	clause (i) shall—
5	"(aa) achieve the maximum
6	level of energy savings that is
7	technically feasible and economi-
8	cally justified; and
9	"(bb) incorporate available
10	appliances, technologies, and con-
11	struction practices.
12	"(II) TREATMENT AS BASE-
13	LINE.—A modification to a code or
14	standard under clause (i) shall serve
15	as the baseline for the next applicable
16	determination of the Secretary under
17	subparagraph (A)(i).
18	"(C) Public Participation.—The Sec-
19	retary shall—
20	"(i) publish in the Federal Register a
21	notice relating to each goal, determination,
22	and modification under this paragraph;
23	and

1	"(ii) provide an opportunity for public
2	comment regarding the goals, determina-
3	tions, and modifications.
4	"(b) State Certification of Building Energy
5	Code Updates.—
6	"(1) General certification.—
7	"(A) IN GENERAL.—Not later than 2 years
8	after the date of enactment of the America's
9	Climate Security Act of 2007, each State shall
10	certify to the Secretary that the State has re-
11	viewed and updated the provisions of the resi-
12	dential and commercial building codes of the
13	State regarding energy efficiency.
14	"(B) Energy savings.—A certification
15	under subparagraph (A) shall include a dem-
16	onstration that the applicable provisions of the
17	State code meet or exceed, as applicable—
18	"(i)(I) the IECC (2006) for residen-
19	tial buildings; or
20	"(II) the ASHRAE Standard 90.1
21	(2004) for commercial buildings; or
22	"(ii) the quantity of energy savings
23	represented by the provisions referred to in
24	clause (i).
25	"(2) Revision of codes and standards.—

1	"(A) In General.—If the Secretary
2	makes an affirmative determination under sub-
3	section (a)(2)(A)(i) or proposes a modified code
4	or standard under subsection (a)(2)(B), not
5	later than 2 years after the determination or
6	proposal, each State shall certify that the State
7	has reviewed and updated the provisions of the
8	residential and commercial building codes of the
9	State regarding energy efficiency.
10	"(B) Energy savings.—A certification
11	under subparagraph (A) shall include a dem-
12	onstration that the applicable provisions of the
13	State code meet or exceed—
14	"(i) the modified code or standard; or
15	"(ii) the quantity of energy savings
16	represented by the modified code or stand-
17	ard.
18	"(C) Failure to determine.—If the
19	Secretary fails to make a determination under
20	subsection (a)(2)(A)(i) by the date specified in
21	subsection (a)(2), or if the Secretary makes a
22	negative determination, not later than 2 years
23	after the specified date or the date of the deter-
24	mination, each State shall certify that the State
25	has—

1	"(i) reviewed the revised code or
2	standard; and
3	"(ii) updated the provisions of the res-
4	idential and commercial building codes of
5	the State as necessary to meet or exceed,
6	as applicable—
7	"(I) any provisions of a national
8	code or standard determined to im-
9	prove energy efficiency in buildings; or
10	"(II) energy savings achieved by
11	those provisions through other means.
12	"(c) Achievement of Compliance by States.—
13	"(1) IN GENERAL.—Not later than 3 years
14	after the date on which a State makes a certification
15	under subsection (b), the State shall certify to the
16	Secretary that the State has achieved compliance
17	with the national building energy code that is the
18	subject of the certification.
19	"(2) Rate of compliance.—The certification
20	shall include documentation of the rate of compli-
21	ance based on independent inspections of a random
22	sample of the new and renovated buildings covered
23	by the State code during the preceding calendar
24	year.

1	"(3) Compliance.—A State shall be considered
2	to achieve compliance for purposes of paragraph (1)
3	if—
4	"(A) at least 90 percent of new and ren-
5	ovated buildings covered by the State code dur-
6	ing the preceding calendar year substantially
7	meet all the requirements of the code; or
8	"(B) the estimated excess energy use of
9	new and renovated buildings that did not meet
10	the requirements of the State code during the
11	preceding calendar year, as compared to a base-
12	line of comparable buildings that meet the re-
13	quirements of the code, is not more than 10
14	percent of the estimated energy use of all new
15	and renovated buildings covered by the State
16	code during the preceding calendar year.
17	"(d) Failure to Certify.—
18	"(1) Extension of deadlines.—The Sec-
19	retary shall extend a deadline for certification by a
20	State under subsection (b) or (c) for not more than
21	1 additional year, if the State demonstrates to the
22	satisfaction of the Secretary that the State has
23	made—
24	"(A) a good faith effort to comply with the
25	certification requirement; and

1	"(B) significant progress with respect to
2	the compliance.
3	"(2) Noncompliance by state.—
4	"(A) IN GENERAL.—A State that fails to
5	submit a certification required under subsection
6	(b) or (c), and to which an extension is not pro-
7	vided under paragraph (1), shall be considered
8	to be out of compliance with this section.
9	"(B) Effect on local governments.—
10	A local government of a State that is out of
11	compliance with this section may be considered
12	to be in compliance with this section if the local
13	government meets each applicable certification
14	requirement of this section.
15	"(e) Technical Assistance.—
16	"(1) In General.—The Secretary shall provide
17	technical assistance (including building energy anal-
18	ysis and design tools, building demonstrations, and
19	design assistance and training) to ensure that na-
20	tional model building energy codes and standards
21	meet the goals described in subsection $(a)(1)$ .
22	"(2) Assistance to states.—The Secretary
23	shall provide technical assistance to States—
24	"(A) to implement this section, including
25	procedures for States to demonstrate that the

1	codes of the States achieve equivalent or great-
2	er energy savings than the national model codes
3	and standards;
4	"(B) to improve and implement State resi-
5	dential and commercial building energy effi-
6	ciency codes; and
7	"(C) to otherwise promote the design and
8	construction of energy-efficient buildings.
9	"(f) Incentive Funding.—
10	"(1) IN GENERAL.—The Secretary shall provide
11	incentive funding to States—
12	"(A) to implement this section; and
13	"(B) to improve and implement State resi-
14	dential and commercial building energy effi-
15	ciency codes, including increasing and verifying
16	compliance with the codes.
17	"(2) Amount.—In determining whether, and in
18	what amount, to provide incentive funding under
19	this subsection, the Secretary shall take into consid-
20	eration actions proposed by the State—
21	"(A) to implement this section;
22	"(B) to implement and improve residential
23	and commercial building energy efficiency
24	codes; and

1	"(C) to promote building energy efficiency
2	through use of the codes.
3	"(3) Additional funding.—The Secretary
4	shall provide additional funding under this sub-
5	section for implementation of a plan to demonstrate
6	a rate of compliance with applicable residential and
7	commercial building energy efficiency codes at a rate
8	of not less than 90 percent, based on energy per-
9	formance—
10	"(A) to a State that has adopted and is
11	implementing, on a statewide basis—
12	"(i) a residential building energy effi-
13	ciency code that meets or exceeds the re-
14	quirements of the IECC (2006) (or a suc-
15	cessor code that is the subject of an af-
16	firmative determination by the Secretary
17	under subsection $(a)(2)(A)(i)$ ; and
18	"(ii) a commercial building energy ef-
19	ficiency code that meets or exceeds the re-
20	quirements of the ASHRAE Standard 90.1
21	(2004) (or a successor standard that is the
22	subject of an affirmative determination by
23	the Secretary under subsection
24	(a)(2)(A)(i)); or

1	"(B) in the case of a State in which no
2	statewide energy code exists for residential
3	buildings or commercial buildings, or in which
4	the State code fails to comply with subpara-
5	graph (A), to a local government that has
6	adopted and is implementing residential and
7	commercial building energy efficiency codes, as
8	described in subparagraph (A).
9	"(4) Training.—Of the amounts made avail-
10	able to carry out this subsection, the Secretary may
11	use not more than \$500,000 for each State to train
12	State and local officials to implement State or local
13	energy codes in accordance with a plan described in
14	paragraph (3).".
15	SEC. 5202. CONFORMING AMENDMENT.
16	Section 303 of the Energy Conservation and Produc-
17	tion Act (42 U.S.C. 6832) is amended by adding at the
18	end the following new paragraph:
19	"(17) IECC.—The term 'IECC' means the
20	International Energy Conservation Code.".
21	TITLE VI—GLOBAL EFFORT TO
22	REDUCE GREENHOUSE GAS
23	EMISSIONS
24	SEC. 6001. DEFINITIONS.

25 In this title:

1	(1) Baseline emission level.—The term
2	"baseline emission level" means, as determined by
3	the Administrator, the total average annual green-
4	house gas emissions attributed to a category of cov-
5	ered goods of a foreign country during the period be-
6	ginning on January 1, 2012, and ending on Decem-
7	ber 31, 2014, based on—
8	(A) relevant data available for that period;
9	and

- (B) to the extent necessary with respect to a specific category of covered goods, economic and engineering models and best available information on technology performance levels for the manufacture of that category of covered goods.
- (2) Comparable action.—The term "comparable action" means any greenhouse gas regulatory programs, requirements, and other measures adopted by a foreign country that, in combination, are comparable in effect to actions carried out by the United States to limit greenhouse gas emissions pursuant to this Act, as determined by the President, taking into consideration the level of economic development of the foreign country.
- (3) COMPLIANCE YEAR.—The term "compliance year" means each calendar year for which the re-

1	quirements of this title apply to a category of cov-
2	ered goods of a covered foreign country that is im-
3	ported into the United States.
4	(4) Covered foreign country.—The term
5	"covered foreign country" means a foreign country
6	that is included on the covered list prepared under
7	section 6006(b)(3).
8	(5) COVERED GOOD.—The term "covered good"
9	means a good that (as identified by the Adminis-
10	trator by rule)—
11	(A) is a primary product;
12	(B) generates, in the course of the manu-
13	facture of the good, a substantial quantity of
14	direct greenhouse gas emissions and indirect
15	greenhouse gas emissions; and
16	(C) is closely related to a good the cost of
17	production of which in the United States is af-
18	fected by a requirement of this Act.
19	(6) Foreign country.—The term "foreign
20	country" means a member of, or observer govern-
21	ment to, the World Trade Organization (WTO),
22	other than the United States.
23	(7) Indirect greenhouse gas emissions.—
24	The term "indirect greenhouse gas emissions"
25	means any emissions of a greenhouse gas resulting

1	from the generation of electricity that is consumed
2	during the manufacture of a good.
3	(8) International agreement.—The term
4	"international agreement" means any international
5	agreement to which the United States is a party, in-
6	cluding the Marrakesh agreement establishing the
7	World Trade Organization, done at Marrakesh on
8	April 15, 1994.
9	(9) International reserve allowance.—
10	The term "international reserve allowance" means
11	an allowance (denominated in units of metric tons of
12	carbon dioxide equivalent) that is—
13	(A) purchased from a special reserve of al-
14	lowances pursuant to section 6006(a)(2); and
15	(B) used for purposes of meeting the re-
16	quirements of section 6006.
17	(10) Primary product.—The term "primary
18	product" means—
19	(A) iron, steel, aluminum, cement, bulk
20	glass, or paper; or
21	(B) any other manufactured product
22	that—
23	(i) is sold in bulk for purposes of fur-
24	ther manufacture; and

1	(ii) generates, in the course of the
2	manufacture of the product, direct green-
3	house gas emissions and indirect green-
4	house gas emissions that are comparable
5	(on an emissions-per-dollar basis) to emis-
6	sions generated in the manufacture of
7	products by covered facilities in the indus-
8	trial sector.
9	SEC. 6002. PURPOSES.
10	The purposes of this title are—
11	(1) to promote a strong global effort to signifi-
12	cantly reduce greenhouse gas emissions;
13	(2) to ensure, to the maximum extent prac-
14	ticable, that greenhouse gas emissions occurring out-
15	side the United States do not undermine the objec-
16	tives of the United States in addressing global cli-
17	mate change; and
18	(3) to encourage effective international action
19	to achieve those objectives through—
20	(A) agreements negotiated between the
21	United States and foreign countries; and
22	(B) measures carried out by the United
23	States that comply with applicable international
24	agreements.

#### SEC. 6003. INTERNATIONAL NEGOTIATIONS.

- 2 (a) FINDING.—Congress finds that the purposes de-
- 3 scribed in section 6002 can be most effectively addressed
- 4 and achieved through agreements negotiated between the
- 5 United States and foreign countries.
- 6 (b) Negotiating Objective.—
- 7 (1) STATEMENT OF POLICY.—It is the policy of 8 the United States to work proactively under the
- 9 United Nations Framework Convention on Climate
- 10 Change and, in other appropriate forums, to estab-
- lish binding agreements committing all major green-
- house gas-emitting nations to contribute equitably to
- the reduction of global greenhouse gas emissions.
- 14 (2) Intent of congress regarding objec-
- 15 TIVE.—To the extent that the agreements described
- in subsection (a) involve measures that will affect
- international trade in any good or service, it is the
- intent of Congress that the negotiating objective of
- the United States shall be to focus multilateral and
- bilateral international agreements on the reduction
- of greenhouse gas emissions to advance achievement
- of the purposes described in section 6002.
- 23 SEC. 6004. INTERAGENCY REVIEW.
- 24 (a) Interagency Group.—

1	(1) Establishment.—The President shall es-
2	tablish an interagency group to carry out this sec-
3	tion.
4	(2) Chairperson.—The chairperson of the
5	interagency group established under paragraph (1)
6	shall be the Secretary of State.
7	(3) REQUIREMENT.—The Administrator shall
8	be a member of the interagency group.
9	(b) Determinations.—
10	(1) In general.—Subject to paragraph (2),
11	the interagency group established under subsection
12	(a)(1) shall determine whether, and the extent to
13	which, each foreign country has taken comparable
14	action to limit the greenhouse gas emissions of the
15	foreign country.
16	(2) Exemption.—The interagency group may
17	exempt from a determination under paragraph (1)
18	any foreign country on the excluded list under sec-
19	tion $6006(b)(2)$ .
20	(e) Report to President.—Not later than Janu-
21	ary 1, 2018, and annually thereafter, the interagency
22	group shall submit to the President a report describing
23	the determinations of the interagency group under sub-

24 section (b).

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1	SEC. 6005. PRESIDENTIAL DETERMINATIONS.
2	(a) In General.—Not later than January 1, 2019,
3	and annually thereafter, the President shall determine
4	whether each foreign country that is subject to interagency
5	review under section 6004(b) has taken comparable action
6	to limit the greenhouse gas emissions of the foreign coun-
7	try, taking into consideration—
8	(1) the baseline emission levels of the foreign
9	country; and
10	(2) applicable reports submitted under section
11	6004(e).
12	(b) Reports.—The President shall—
13	(1) submit to Congress an annual report de-
14	scribing the determinations of the President under
15	subsection (a) for the most recent calendar year; and
16	(2) publish the determinations in the Federal
17	Register.
18	SEC. 6006. INTERNATIONAL RESERVE ALLOWANCE PRO-
19	GRAM.
20	(a) Establishment.—
21	(1) In general.—The Administrator shall es-

(1) In General.—The Administrator shall establish a program under which the Administrator, during the 1-year period beginning on January 1, 2019, and annually thereafter, shall offer for sale to United States importers international reserve allowances in accordance with this subsection.

1 (2) Source.—International reserve allowances 2 under paragraph (1) shall be issued from a special 3 reserve of allowances that is separate from, and es-4 tablished in addition to, the quantity of allowances 5 established under section 1201.

### (3) Price.—

- (A) IN GENERAL.—Subject to subparagraph (B), the Administrator shall establish, by rule, a methodology for determining the price of international reserve allowances for each compliance year at a level that does not exceed the market price of allowances established under section 1201 for the compliance year.
- (B) MAXIMUM PRICE.—The price for an international reserve allowance under subparagraph (A) shall not exceed the clearing price for current compliance year allowances established at the most recent auction of allowances by the Corporation.
- (4) Serial number.—The Administrator shall assign a unique serial number to each international reserve allowance issued under this subsection.
- (5) Trading system.—The Administrator may establish, by rule, a system for the sale, exchange,

- purchase, transfer, and banking of international re serve allowances.
  - (6) REGULATED ENTITIES.—International reserve allowances may not be submitted by regulated entities to comply with the allowance submission requirements of section 1202.
    - (7) PROCEEDS.—All proceeds from the sale of international reserve allowances under this subsection shall be allocated to a program that the Administrator, in coordination with the Secretary of State, shall establish to mitigate the negative impacts of global climate change on disadvantaged communities in other countries.

## (b) Foreign Country Lists.—

(1) In General.—Not later than January 1, 2020, and annually thereafter, the President shall develop and publish in the Federal Register 2 lists of foreign countries, in accordance with this subsection.

#### (2) Excluded list.—

(A) IN GENERAL.—The President shall identify and publish in a list, to be known as the "excluded list", each foreign country the share of total global greenhouse gas emissions

1	of which is below the de minimis percentage de-
2	scribed in subparagraph (B).
3	(B) DE MINIMIS PERCENTAGE.—The de
4	minimis percentage referred to in subparagraph
5	(A) is a percentage of total global greenhouse
6	gas emissions of not more than 0.5, as deter-
7	mined by the President, for the most recent cal-
8	endar year for which emissions and other rel-
9	evant data is available, taking into consider-
10	ation, as necessary, the annual average defor-
11	estation rate during a representative period for
12	a foreign country that is a developing country.
13	(3) Covered List.—
14	(A) In General.—The President shall
15	identify and publish in a list, to be known as
16	the "covered list", each foreign country the cov-
17	ered goods of which are subject to the require-
18	ments of this section.
19	(B) REQUIREMENT.—The covered list shall
20	include each foreign country that is not in-
21	cluded on the excluded list under paragraph
22	(2).
23	(c) Written Declarations.—
24	(1) In general.—Effective beginning January
25	1, 2020, a United States importer of any covered

1	good shall, as a condition of importation or with-
2	drawal for consumption from a warehouse of the
3	covered good, submit to the Administrator and the
4	appropriate office of the U.S. Customs and Border
5	Protection a written declaration with respect to each
6	such importation or withdrawal.
7	(2) Contents.—A written declaration under
8	paragraph (1) shall contain a statement that—
9	(A) the applicable covered good is accom-
10	panied by a sufficient number of international
11	reserve allowances, as determined under sub-
12	section (d); or
13	(B) the covered good is from a foreign
14	country on the excluded list under subsection
15	(b)(2).
16	(3) Inclusion.—A written declaration de-
17	scribed in paragraph (2)(A) shall include the unique
18	serial number of each emission allowance associated
19	with the importation of the applicable covered good.
20	(4) Failure to declare.—
21	(A) In general.—Except as provided in
22	subparagraph (B), an imported covered good
23	that is not accompanied by a written declara-
24	tion under this subsection shall not be per-

1	mitted to enter the customs territory of the
2	United States.
3	(B) Exception for certain imports.—
4	Subparagraph (A) shall not apply to a covered
5	good of a foreign country if the President deter-
6	mines that—
7	(i) the foreign country has taken com-
8	parable action to limit the greenhouse gas
9	emissions of the foreign country, in accord-
10	ance with section 6005;
11	(ii) the United Nations has identified
12	the foreign country as among the least-de-
13	veloped of developing countries; or
14	(iii) the foreign country is on the ex-
15	cluded list under subsection $(b)(2)$ .
16	(5) Corrected Declaration.—
17	(A) IN GENERAL.—If, after making a dec-
18	laration required under this subsection, an im-
19	porter has reason to believe that the declaration
20	contains information that is not correct, the im-
21	porter shall provide a corrected declaration by
22	not later than 30 days after the date of dis-
23	covery of the error, in accordance with subpara-
24	graph (B).

1	(R) MEMILOD A composted declaration
	(B) Method.—A corrected declaration
2	under subparagraph (A) shall be in the form of
3	a letter or other written statement to the Ad-
4	ministrator and the office of the U.S. Customs
5	and Border Protection to which the original
6	declaration was submitted.
7	(d) Quantity of Allowances Required.—
8	(1) Methodology.—
9	(A) IN GENERAL.—The Administrator
10	shall establish, by rule, a method for calculating
11	the required number of international reserve al-
12	lowances that a United States importer must
13	submit, together with a written declaration
14	under subsection (c), for each category of cov-
15	ered goods of each covered foreign country.
16	(B) FORMULA.—The Administrator shall
17	develop a general formula for calculating the
18	international reserve allowance requirement
19	that applies, on a per unit basis, to each cov-
20	ered good of a covered foreign country that is
21	imported during each compliance year.
22	(2) Initial compliance year.—
23	(A) In general.—Subject to subpara-
24	graph (B), the methodology under paragraph
25	(1) shall establish an international reserve al-

1	lowance requirement (per unit imported into the
2	United States) for the initial compliance year
3	for each category of covered goods of each cov-
4	ered foreign country that is equal to the
5	quotient obtained by dividing—
6	(i) the excess, if any, of the total
7	emissions from the covered foreign country
8	that are attributable to the category of
9	covered goods produced during the most
10	recent year for which data are available,
11	over the baseline emission level of the cov-
12	ered foreign country for that category; and
13	(ii) the total quantity of the covered
14	good produced in the covered foreign coun-
15	try during the most recent calendar year.
16	(B) Adjustments.—The Administrator
17	shall adjust the requirement under subpara-
18	graph (A)—
19	(i) in accordance with the ratio that—
20	(I) the quantity of allowances
21	that were allocated at no cost to enti-
22	ties within the industry sector manu-
23	facturing the covered goods for the
24	compliance year during which the cov-

1	ered goods were imported into the
2	United States; bears to
3	(II) the greenhouse gas emissions
4	of that industry sector; and
5	(ii) to take into account the level of
6	economic development of the covered for-
7	eign country in which the covered goods
8	were produced.
9	(3) Subsequent compliance years.—For
10	each subsequent compliance year, the Administrator
11	shall revise, as appropriate, the international reserve
12	allowance requirement applicable to each category of
13	imported covered goods of each covered foreign
14	country to reflect changes in the factors described in
15	paragraph (2)(B).
16	(4) Publication.—Not later than 90 days be-
17	fore the beginning of each compliance year, the Ad-
18	ministrator shall publish in the Federal Register a
19	schedule describing the required number of inter-
20	national reserve allowances for each category of im-
21	ported covered goods of each covered foreign coun-
22	try, as calculated under this subsection.
23	(e) Foreign Allowances and Credits.—
24	(1) Foreign allowances.—

1	(A) IN GENERAL.—A United States im-
2	porter may submit, in lieu of an international
3	reserve allowance issued under this section, a
4	foreign allowance or similar compliance instru-
5	ment distributed by a foreign country pursuant
6	to a cap and trade program that represents a
7	comparable action.
8	(B) Commensurate cap and trade pro-
9	GRAM.—For purposes of subparagraph (A), a
10	cap and trade program that represents a com-
11	parable action shall include any greenhouse gas
12	regulatory program adopted by a covered for-
13	eign country to limit the greenhouse gas emis-
14	sions of the covered foreign country, if the
15	President certifies that the program—
16	(i)(I) places a quantitative limitation
17	on the total quantity of greenhouse gas
18	emissions of the covered foreign country
19	(expressed in terms of tons emitted per
20	calendar year); and
21	(II) achieves that limitation through
22	an allowance trading system;
23	(ii) satisfies such criteria as the Presi-
24	dent may establish for requirements relat-
25	ing to the enforceability of the cap and

1	trade program, including requirements for
2	monitoring, reporting, verification proce-
3	dures, and allowance tracking; and
4	(iii) is a comparable action.
5	(2) Foreign credits.—
6	(A) IN GENERAL.—A United States im-
7	porter may submit, in lieu of an international
8	reserve allowance issued under this section, a
9	foreign credit or a credit for an international
10	offset project that the Administrator has au-
11	thorized for use under subtitle E of title II.
12	(B) APPLICATION.—The limitation on the
13	use of international reserve allowances by regu-
14	lated entities under subsection (a)(6) shall not
15	apply to a United States importer for purposes
16	of this paragraph.
17	(f) Retirement of Allowances.—The Adminis-
18	trator shall retire each international reserve allowance,
19	foreign allowance, and foreign credit submitted to achieve
20	compliance with this section.
21	(g) Consistency With International Agree-
22	MENTS.—The Administrator, in consultation with the Sec-
23	retary of State, shall adjust the international reserve al-
24	lowance requirements established under this section (in-
25	cluding the quantity of international reserve allowances re-

- 1 quired for each category of covered goods of a covered for-
- 2 eign country) as the Administrator determines to be nec-
- 3 essary to ensure that the United States complies with all
- 4 applicable international agreements.
- 5 (h) TERMINATION.—The international reserve allow-
- 6 ance requirements of this section shall not apply to a cov-
- 7 ered good of a covered foreign country in any case in
- 8 which the President makes a determination described in
- 9 subsection (b)(2) with respect to the covered goods of that
- 10 covered foreign country.
- 11 (i) Final Regulations.—Not later than January 1,
- 12 2019, the Administrator shall promulgate such regulations
- 13 as the Administrator determines to be necessary to carry
- 14 out this section.
- 15 SEC. 6007. ADJUSTMENT OF INTERNATIONAL RESERVE AL-
- 16 LOWANCE REQUIREMENTS.
- 17 (a) IN GENERAL.—Not later than January 1, 2023,
- 18 and annually thereafter, the President shall prepare and
- 19 submit to Congress a report that assesses the effectiveness
- 20 of the applicable international reserve allowance require-
- 21 ments under section 6006 with respect to the covered
- 22 goods of each covered foreign country.
- 23 (b) Inadequate Requirements.—If the President
- 24 determines that an applicable international reserve allow-
- 25 ance requirement is not adequate to achieve the purposes

1	of this title, the President, simultaneously with the sub-
2	mission of the report under subsection (a), shall—
3	(1) adjust the requirement; or
4	(2) take such other action as the President de-
5	termines to be necessary to improve the effectiveness
6	of the requirement, in accordance with all applicable
7	international agreements.
8	(c) Effective Date.—An adjustment under sub-
9	section (b)(1) shall take effect beginning on January 1
10	of the compliance year immediately following the date on
11	which the adjustment is made.
12	TITLE VII—REVIEWS
12 13	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.
13	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.
13 14	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) REPORT.—
13 14 15	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) Report.—  (1) In general.—Not later than January 1,
13 14 15 16	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) Report.—  (1) In general.—Not later than January 1, 2012, and every 3 years thereafter, the Adminis-
13 14 15 16 17	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) Report.—  (1) In General.—Not later than January 1,  2012, and every 3 years thereafter, the Administrator shall offer to enter into a contract with the
13 14 15 16 17	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) REPORT.—  (1) IN GENERAL.—Not later than January 1,  2012, and every 3 years thereafter, the Administrator shall offer to enter into a contract with the  National Academy of Sciences under which the
13 14 15 16 17 18	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) Report.—  (1) In General.—Not later than January 1,  2012, and every 3 years thereafter, the Administrator shall offer to enter into a contract with the  National Academy of Sciences under which the  Academy shall submit to Congress and the Administrator
13 14 15 16 17 18 19 20	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) REPORT.—  (1) IN GENERAL.—Not later than January 1, 2012, and every 3 years thereafter, the Administrator shall offer to enter into a contract with the National Academy of Sciences under which the Academy shall submit to Congress and the Administrator reports evaluating the implementation of this
13 14 15 16 17 18 19 20 21	SEC. 7001. NATIONAL ACADEMY OF SCIENCES REVIEW.  (a) Report.—  (1) In General.—Not later than January 1, 2012, and every 3 years thereafter, the Administrator shall offer to enter into a contract with the National Academy of Sciences under which the Academy shall submit to Congress and the Administrator reports evaluating the implementation of this Act.

1	(A) the extent to which the emission reduc-
2	tions required under this Act are being
3	achieved;
4	(B) the extent to which the emission re-
5	ductions achieved under this Act, taken to-
6	gether with actual steps taken by other coun-
7	tries to reduce greenhouse gas emissions, is pre-
8	dicted to stabilize atmospheric greenhouse gas
9	concentrations at a level adequate to forestall
10	dangerous anthropogenic interference with the
11	climate system;
12	(C) whether an increase of global average
13	temperature in excess of 3.6 degrees Fahrenheit
14	(2 degrees Celsius) above the preindustrial av-
15	erage has occurred or is more likely than not to
16	occur in the foreseeable future as a result of
17	anthropogenic climate change;
18	(D)(i) predicted changes in ocean acidity,
19	the extent of coral reefs, and other indicators of
20	ocean ecosystem health due to anthropogenic
21	carbon dioxide; and
22	(ii) any additional actions that should be
23	taken by the United States or other countries
24	to protect the health of the oceans;

1	(E) the status of the best available science
2	and the status of technologies to reduce, se-
3	quester, or avoid greenhouse gas emissions;
4	(F) whether the percentage of allowances
5	for any calendar year that are auctioned, allo-
6	cated, or devoted to other purposes under this
7	Act should be modified;
8	(G) the effectiveness of auction revenues in
9	meeting the stated purposes of this Act; and
10	(H) whether additional measures, including
11	an increase in the earned income tax credit, a
12	reduction in payroll taxes, or the implementa-
13	tion of electronic benefit transfers by State
14	health and human services agencies to reach
15	low-income individuals who are not required to
16	file Federal income tax returns, are needed to
17	help low- and moderate-income individuals re-
18	spond to changes in the cost of energy-related
19	goods and services.
20	(b) Technology Reports.—
21	(1) Definition.—In this subsection, the term
22	"technologically infeasible," with respect to a tech-
23	nology, means that the technology—
24	(A) will not be demonstrated beyond lab-
25	oratory-scale conditions

1	(B) would be unsafe;
2	(C) would not reliably reduce greenhouse
3	gas emissions; or
4	(D) would prevent the activity to which the
5	technology applies from meeting or performing
6	the primary purpose of the activity (such as
7	generating electricity or transporting goods or
8	individuals).
9	(2) Reports.—Not later than 180 days after
10	the date of enactment of this Act, the Administrator
11	shall offer to enter into a contract with the National
12	Academy of Sciences under which the Academy, not
13	later than 2 years after the date of enactment of
14	this Act and every 3 years thereafter, shall submit
15	to Congress and the Administrator a report that de-
16	scribes or analyzes—
17	(A) the status of current greenhouse gas
18	emission reduction technologies, including—
19	(i) technologies for capture and dis-
20	posal of greenhouse gases;
21	(ii) efficiency improvement tech-
22	nologies;
23	(iii) zero-greenhouse gas emitting en-
24	ergy technologies; and

1	(iv) above- and below-ground biologi-
2	cal sequestration technologies;
3	(B) whether the requirements of this Act
4	(including regulations promulgated under this
5	Act)—
6	(i) promote the development and de-
7	ployment of greenhouse gas emission re-
8	duction technologies; or
9	(ii) mandate a level of emission con-
10	trol or reduction that, based on available
11	or expected technology, will be techno-
12	logically infeasible at the time at which the
13	requirements become effective;
14	(C) the projected date on which any tech-
15	nology determined to be technologically infeasi-
16	ble will become technologically feasible;
17	(D) whether any technology determined to
18	be technologically infeasible cannot reasonably
19	be expected to become technologically feasible
20	prior to calendar year 2050; and
21	(E) the costs of available alternative green-
22	house gas emission reduction strategies that
23	could be used or pursued in lieu of any tech-
24	nologies that are determined to be techno-
25	logically infeasible.

## 1 SEC. 7002. TRANSPORTATION SECTOR REVIEW.

- 2 (a) REVIEW.—Not later than January 1, 2010, the
- 3 Administrator shall conduct a comprehensive review and
- 4 analysis to determine whether any of the following have
- 5 occurred:

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- 6 (1)(A) The motor vehicle fuel and motor vehicle 7 and nonroad regulations within the scope of Execu-8 tive Order 13432 (72 Fed. Reg. 27717; relating to 9 cooperation among agencies in protecting the envi-10 ronment with respect to greenhouse gas emissions 11 from motor vehicles, nonroad vehicles, and nonroad 12 engines) have been finalized and implemented by 13 Federal agencies and departments.
  - (B) Any other transportation-related programs, including corporate average fuel economy standard reform, greenhouse gas vehicle emissions standards, renewable fuel volume mandates, low carbon fuel standards, and activities to reduce vehicle miles traveled have been finalized and implemented by a Federal agency or department.
  - (2) Any regulation or program described in paragraph (1) is expected to achieve at least 1 of the following, as compared to the baseline greenhouse gas emissions consistent with the reference case contained in the report of the Energy Information Ad-

1	ministration entitled "Annual Energy Outlook
2	2006'':
3	(A) At least a 6.2-percent reduction in cu-
4	mulative greenhouse gas emissions from the
5	light-duty motor vehicle sector, including light-
6	duty vehicles and light-duty trucks, during the
7	period beginning on January 1, 2010, and end-
8	ing on December 31, 2020.
9	(B) A cumulative reduction of approxi-
10	mately 1,140,000 metric tons of carbon dioxide
11	equivalent, measured on a full fuel cycle basis.
12	(b) Report.—If the Administrator determines that
13	a reduction described in subsection (a)(2)(A) will not be
14	achieved, the Administrator shall submit to Congress, not
15	later than January 1, 2010, a report describing—
16	(1) any additional action of the Administrator
17	that will be necessary to reduce greenhouse gas
18	emissions from the light-duty motor vehicle sector;
19	and
20	(2) recommendations of the Administrator with
21	respect to actions that could be established by Con-
22	gress to ensure that the United States transpor-
23	tation sector will achieve—
24	(A) the reductions described in subsection
25	(a)(2)(B); and

1	(B) any additional reductions necessary for
2	that sector to assume an equitable share of re-
3	sponsibility for reducing greenhouse gas emis-
4	sions.
5	SEC. 7003. ADAPTATION REVIEW.
6	(a) Regional Estimates.—
7	(1) Estimates.—
8	(A) IN GENERAL.—The Administrator, in
9	consultation with the officials described in para-
10	graph (2) and relevant State agencies, shall
11	conduct 6 regional infrastructure cost assess-
12	ments in various regions of the United States,
13	and a national cost assessment, to provide esti-
14	mates of the range of costs that should be an-
15	ticipated for adaptation to the impacts of cli-
16	mate change.
17	(B) Various probabilities.—The Ad-
18	ministrator shall develop the estimates under
19	subparagraph (A) for low, medium, and high
20	probabilities of climate change and the potential
21	impacts of climate change.
22	(2) Description of officials.—The officials
23	referred to in paragraph (1) are—
24	(A) the Secretary of Agriculture;
25	(B) the Secretary of Commerce;

1	(C) the Secretary of Defense;
2	(D) the Secretary of Energy;
3	(E) the Secretary of Health and Human
4	Services;
5	(F) the Secretary of Homeland Security;
6	(G) the Secretary of Housing and Urban
7	Development;
8	(H) the Secretary of the Interior;
9	(I) the Secretary of Transportation;
10	(J) the Director of United States Geologi-
11	cal Survey; and
12	(K) the heads of such other Federal agen-
13	cies and departments as the Administrator de-
14	termines to be necessary.
15	(3) Submission to congress.—Not later than
16	1 year after the date of enactment of this Act, the
17	Administrator shall submit to Congress a report de-
18	scribing the results of the assessments conducted
19	under this subsection.
20	(b) Adaptation Plan.—
21	(1) In general.—Not later than 180 days
22	after the date of enactment of this Act, the Adminis-
23	trator shall submit to Congress a climate change ad-
24	aptation plan for the United States, based on—

1	(A) assessments performed by the United
2	Nations Intergovernmental Panel on Climate
3	Change in accordance with the Global Change
4	Research Act of 1990 (15 U.S.C. 2921 et seq.);
5	and
6	(B) any other scientific, peer-reviewed re-
7	gional assessments.
8	(2) Inclusions.—The adaptation plan under
9	paragraph (1) shall include—
10	(A) a prioritized list of vulnerable systems
11	and regions in the United States;
12	(B) requirements for coordination between
13	Federal, State, and local governments to ensure
14	that key public infrastructure, safety, health,
15	and land use planning and control issues are
16	addressed;
17	(C) requirements for coordination among
18	the Federal Government, industry, and commu-
19	nities;
20	(D) an assessment of climate change
21	science research needs, including probabilistic
22	assessments as an aid to planning;
23	(E) an assessment of climate change tech-
24	nology needs; and

1	(F) regional and national cost assessments
2	for the range of costs that should be anticipated
3	for adapting to the impacts of climate change.
4	(c) Impacts of Climate Change on Low-Income
5	Populations.—
6	(1) In general.—The Administrator shall con-
7	duct research on the impact of climate change on
8	low-income populations in all countries, including—
9	(A) an assessment of the adverse impact of
10	climate change on—
11	(i) low-income populations in the
12	United States; and
13	(ii) developing countries;
14	(B)(i) an identification of appropriate cli-
15	mate change adaptation measures and pro-
16	grams for developing countries and low-income
17	populations;
18	(ii) an assessment of the impact of the
19	measures and programs on low-income popu-
20	lations; and
21	(C) an estimate of the costs of developing
22	and implementing those climate change adapta-
23	tion and mitigation programs.
24	(2) Report.—Not later than 1 year after the
25	date of enactment of this Act, the Administrator

1	shall submit to Congress a report describing the re-
2	sults of the research conducted under paragraph (1).
3	TITLE VIII—FRAMEWORK FOR
4	GEOLOGICAL SEQUESTRA-
5	TION OF CARBON DIOXIDE
6	SEC. 8001. NATIONAL DRINKING WATER REGULATIONS.
7	(a) In General.—Section 1421 of the Safe Drink-
8	ing Water Act (42 U.S.C. 300h) is amended—
9	(1) in subsection (b)(1), by striking "subsection
10	(d)(2)" and inserting "subsection (e)(2)";
11	(2) by redesignating subsection (d) as sub-
12	section (e); and
13	(3) by inserting after subsection (c) the fol-
14	lowing:
15	"(d) Carbon Dioxide.—
16	"(1) Regulations.—Not later than 1 year
17	after the date of enactment of the America's Climate
18	Security Act of 2007, the Administrator shall pro-
19	mulgate regulations for permitting commercial-scale
20	underground injection of carbon dioxide for purposes
21	of geological sequestration to address climate
22	change, including provisions—
23	"(A) for monitoring and controlling the
24	long-term storage of carbon dioxide and avoid-
25	ing, to the maximum extent practicable, any re-

lease of carbon dioxide into the atmosphere, and for ensuring protection of underground sources of drinking water, human health, and the environment; and

- "(B) relating to long-term liability associated with commercial-scale geological sequestration.
- "(2) Subsequent reports.—Not later than 5 years after the date on which regulations are promulgated pursuant to paragraph (1), and not less frequently than once every 5 years thereafter, the Administrator shall submit to Congress a report that contains an evaluation of the effectiveness of the regulations, based on current knowledge and experience, with particular emphasis on any new information on potential impacts of commercial-scale geological sequestration on drinking water, human health, and the environment.
- "(3) REVISION.—If the Administrator determines, based on a report under paragraph (2), that regulations promulgated pursuant to paragraph (1) require revision, the Administrator shall promulgate revised regulations not later than 1 year after the date on which the applicable report is submitted to Congress under paragraph (2).".

1	(b) Conforming Amendment.—Section 1447(a)(4)
2	of the Safe Drinking Water Act (42 U.S.C. 300j-6(a)(4))
3	is amended by striking "section 1421(d)(2)" and inserting
4	"section 1421(e)(2)".
5	SEC. 8002. ASSESSMENT OF GEOLOGICAL STORAGE CAPAC
6	ITY FOR CARBON DIOXIDE.
7	(a) DEFINITIONS.—In this section:
8	(1) Assessment.—The term "assessment"
9	means the national assessment of capacity for car-
10	bon dioxide completed under subsection (f).
11	(2) CAPACITY.—The term "capacity" means the
12	portion of a storage formation that can retain car-
13	bon dioxide in accordance with the requirements (in-
14	cluding physical, geological, and economic require-
15	ments) established under the methodology developed
16	under subsection (b).
17	(3) Engineered Hazard.—The term "engi-
18	neered hazard" includes the location and completion
19	history of any well that could affect a storage forma-
20	tion or capacity.
21	(4) RISK.—The term "risk" includes any risk
22	posed by a geomechanical, geochemical, hydrogeo-
23	logical, structural, or engineered hazard.

1	(5) Secretary.—The term "Secretary" means
2	the Secretary of the Interior, acting through the Di-
3	rector of the United States Geological Survey.
4	(6) Storage formation.—The term "storage
5	formation" means a deep saline formation,
6	unmineable coal seam, or oil or gas reservoir that is
7	capable of accommodating a volume of industrial
8	carbon dioxide.
9	(b) Methodology.—Not later than 1 year after the
10	date of enactment of this Act, the Secretary shall develop
11	a methodology for conducting an assessment under sub-
12	section (f), taking into consideration—
13	(1) the geographical extent of all potential stor-
14	age formations in all States;
15	(2) the capacity of the potential storage forma-
16	tions;
17	(3) the injectivity of the potential storage for-
18	mations;
19	(4) an estimate of potential volumes of oil and
20	gas recoverable by injection and storage of industrial
21	carbon dioxide in potential storage formations;
22	(5) the risk associated with the potential stor-
23	age formations; and
24	(6) the work performed to develop the Carbon
25	Sequestration Atlas of the United States and Can-

1	ada completed by the Department of Energy in April
2	2006.
3	(c) Coordination.—
4	(1) Federal coordination.—
5	(A) Consultation.—The Secretary shall
6	consult with the Secretary of Energy and the
7	Administrator regarding data sharing and the
8	format, development of methodology, and con-
9	tent of the assessment to ensure the maximum
10	usefulness and success of the assessment.
11	(B) Cooperation.—The Secretary of En-
12	ergy and the Administrator shall cooperate with
13	the Secretary to ensure, to the maximum extent
14	practicable, the usefulness and success of the
15	assessment.
16	(2) State coordination.—The Secretary
17	shall consult with State geological surveys and other
18	relevant entities to ensure, to the maximum extent
19	practicable, the usefulness and success of the assess-
20	ment.
21	(d) External Review and Publication.—On
22	completion of the methodology under subsection (b), the
23	Secretary shall—

1	(1) publish the methodology and solicit com-
2	ments from the public and the heads of affected
3	Federal and State agencies:

- (2) establish a panel of individuals with expertise in the matters described in paragraphs (1) through (5) of subsection (b) composed, as appropriate, of representatives of Federal agencies, institutions of higher education, nongovernmental organizations, State organizations, industry, and international geosciences organizations to review the methodology and comments received under paragraph (1); and
- 13 (3) on completion of the review under para-14 graph (2), publish in the Federal Register the re-15 vised final methodology.
- 16 (e) PERIODIC UPDATES.—The methodology devel-17 oped under this section shall be updated periodically (in-18 cluding not less frequently than once every 5 years) to in-19 corporate new data as the data becomes available.

## 20 (f) National Assessment.—

21 (1) IN GENERAL.—Not later than 2 years after 22 the date of publication of the methodology under 23 subsection (d)(3), the Secretary, in consultation with 24 the Secretary of Energy and State geological sur-25 veys, shall complete a national assessment of the ca-

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pacity for carbon dioxide storage in accordance with
the methodology.
(2) Geological Verification.—As part of
the assessment, the Secretary shall carry out a drill-
ing program to supplement the geological data rel-
evant to determining storage capacity in carbon di-
oxide in geological storage formations, including—
(A) well log data;
(B) core data; and
(C) fluid sample data.
(3) Partnership with other drilling pro-
GRAMS.—As part of the drilling program under
paragraph (2), the Secretary shall enter into part-
nerships, as appropriate, with other entities to col-
lect and integrate data from other drilling programs
relevant to the storage of carbon dioxide in geologic
formations.
(4) Incorporation into natcarb.—
(A) In general.—On completion of the
assessment, the Secretary shall incorporate the
results of the assessment using, to the max-
imum extent practicable—
(i) the NatCarb database; or

1	(ii) a new database developed by the
2	Secretary, as the Secretary determines to
3	be necessary.
4	(B) Ranking.—The database shall include
5	the data necessary to rank potential storage
6	sites—
7	(i) for capacity and risk;
8	(ii) across the United States;
9	(iii) within each State;
10	(iv) by formation; and
11	(v) within each basin.
12	(5) Report.—Not later than 180 days after
13	the date on which the assessment is completed, the
14	Secretary shall submit to the Committee on Energy
15	and Natural Resources of the Senate and the Com-
16	mittee on Science and Technology of the House of
17	Representatives a report describing the results of the
18	assessment.
19	(6) Periodic updates.—The assessment shall
20	be updated periodically (including not less frequently
21	than once every 5 years) as necessary to support
22	public and private sector decisionmaking, as deter-
23	mined by the Secretary.

1	SEC. 8003. STUDY OF THE FEASIBILITY RELATING TO CON-
2	STRUCTION OF PIPELINES AND GEOLOGICAL
3	CARBON DIOXIDE SEQUESTRATION ACTIVI-
4	TIES.
5	(a) In General.—The Secretary of Energy, in co-
6	ordination with the Administrator, the Federal Energy
7	Regulatory Commission, the Secretary of Transportation,
8	and the Secretary of the Interior, shall conduct a study
9	to assess the feasibility of the construction of—
10	(1) pipelines to be used for the transportation
11	of carbon dioxide for the purpose of sequestration or
12	enhanced oil recovery; and
13	(2) geological carbon dioxide sequestration fa-
14	cilities.
15	(b) Scope.—The study shall consider—
16	(1) any barrier or potential barrier in existence
17	as of the date of enactment of this Act, including
18	any technical, siting, financing, or regulatory bar-
19	rier, relating to—
20	(A) the construction of pipelines to be used
21	for the transportation of carbon dioxide for the
22	purpose of sequestration or enhanced oil recov-
23	ery; or
24	(B) the geological sequestration of carbon
25	dioxide;

1	(2) any market risk (including throughput risk)
2	relating to—
3	(A) the construction of pipelines to be used
4	for the transportation of carbon dioxide for the
5	purpose of sequestration or enhanced oil recov-
6	ery; or
7	(B) the geological sequestration of carbon
8	dioxide;
9	(3) any regulatory, financing, or siting option
10	that, as determined by the Secretary of Energy,
11	would—
12	(A) mitigate any market risk described in
13	paragraph (2); or
14	(B) help ensure the construction of pipe-
15	lines dedicated to the transportation of carbon
16	dioxide for the purpose of sequestration or en-
17	hanced oil recovery;
18	(4) the means by which to ensure the safe han-
19	dling and transportation of carbon dioxide;
20	(5) any preventive measure to ensure the inte-
21	gration of pipelines to be used for the transportation
22	of carbon dioxide for the purpose of sequestration or
23	enhanced oil recovery; and
24	(6) any other appropriate use, as determined by
25	the Secretary of Energy, in coordination with the

- 1 Administrator, the Federal Energy Regulatory Com-
- 2 mission, the Secretary of Transportation, and the
- 3 Secretary of the Interior.
- 4 (c) Report.—Not later than 180 days after the date
- 5 of enactment of this Act, the Secretary of Energy shall
- 6 submit to the Congress a report describing the results of
- 7 the study.
- 8 SEC. 8004. LIABILITIES FOR CLOSED GEOLOGICAL STOR-
- 9 AGE SITES.
- 10 (a) Establishment of Task Force.—As soon as
- 11 practicable after the date of enactment of this Act, the
- 12 Administrator shall establish a task force, to be composed
- 13 of an equal number of stakeholders, the public, subject
- 14 matter experts, and members of the private sector, to con-
- 15 duct a study of the legal framework, environmental and
- 16 safety considerations, and cost implications of potential
- 17 Federal assumption of liability with respect to closed geo-
- 18 logical storage sites.
- 19 (b) REPORT.—Not later than 18 months after the
- 20 date of enactment of this Act, the task force established
- 21 under subsection (a) shall submit to Congress a report de-
- 22 scribing the results of the study conducted under sub-
- 23 section (a), including recommendations of the task force,
- 24 if any, with respect to the framework described in that
- 25 subsection.

## 1 TITLE IX—MISCELLANEOUS

## 2 SEC. 9001. PARAMOUNT INTEREST WAIVER.

- 3 (a) IN GENERAL.—If the President determines that
- 4 a national security emergency exists and, in light of infor-
- 5 mation that was not available as of the date of enactment
- 6 of this Act, it is in the paramount interest of the United
- 7 States to modify any requirement under this Act to mini-
- 8 mize the effects of the emergency, the President may,
- 9 after opportunity for public notice and comment, tempo-
- 10 rarily adjust, suspend, or waive any regulations promul-
- 11 gated pursuant to this Act to achieve that minimization.
- 12 (b) Consultation.—In making an emergency deter-
- 13 mination under subsection (a), the President shall, to the
- 14 maximum extent practicable, consult with and take into
- 15 account any advice received from—
- 16 (1) the National Academy of Sciences;
- 17 (2) the Secretary of Energy; and
- 18 (3) the Administrator.
- 19 (c) Judicial Review.—An emergency determination
- 20 under subsection (a) shall be subject to judicial review in
- 21 accordance with section 307 of the Clean Air Act (42
- 22 U.S.C. 7607).

1	SEC. 9002. CURPORATE ENVIRONMENTAL DISCLUSURE OF
2	CLIMATE CHANGE RISKS.
3	(a) REGULATIONS.—Not later than 2 years after the
4	date of enactment of this Act, the Securities and Ex-
5	change Commission (referred to in this section as the
6	"Commission") shall promulgate regulations in accord-
7	ance with section 13 of the Securities Exchange Act of
8	1934 (15 U.S.C. 78m) directing each issuer of securities
9	under that Act, to inform, based on the current expecta-
10	tions and projections and knowledge of facts of the issuer,
11	securities investors of material risks relating to—
12	(1) the financial exposure of the issuer because
13	of the net global warming pollution emissions of the
14	issuer; and
15	(2) the potential economic impacts of global
16	warming on the interests of the issuer.
17	(b) Uniform Format for Disclosure.—In car-
18	rying out subsection (a), the Commission shall enter into
19	an agreement with the Financial Accounting Standards
20	Board, or another appropriate organization that estab-
21	lishes voluntary standards, to develop a uniform format
22	for disclosing to securities investors information on the
23	risks described in subsection (a).
24	(c) Interim Interpretive Release.—
25	(1) IN GENERAL.—Not later than 1 year after
26	the date of enactment of this Act, the Commission

1	shall issue an interpretive release clarifying that
2	under items 101 and 303 of Regulation S–K of the
3	Commission under part 229 of title 17, Code of Fed-
4	eral Regulations (as in effect on the date of enact-
5	ment of this Act)—
6	(A) the commitments of the United States
7	to reduce emissions of global warming pollution
8	under the United Nations Framework Conven-
9	tion on Climate Change, done at New York on
10	May 9, 1992, are considered to be a material
11	effect; and
12	(B) global warming constitutes a known
13	trend.
14	(2) Period of effectiveness.—The inter-
15	pretive release issued under paragraph (1) shall re-
16	main in effect until the effective date of the final
17	regulations promulgated under subsection (a).
18	SEC. 9003. ADMINISTRATIVE PROCEDURE AND JUDICIAL
19	REVIEW.
20	(a) Rulemaking Procedures.—Any rule, require-
21	ment, regulation, method, standard, program, determina-
22	tion, or final action made or promulgated pursuant to any
23	title of this Act, with the exception of sections 3101, 3201,
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- 1 dures described in sections 551 through 557 of title 5,
- 2 United States Code.
- 3 (b) Enforcement.—Each provision of this Act (in-
- 4 cluding provisions relating to mandatory duties of the Ad-
- 5 ministrator) shall be fully enforceable pursuant to sections
- 6 113, 303, and 304 of the Clean Air Act (42 U.S.C. 7413,
- 7 7603, 7604).
- 8 (c) Recordkeeping, Inspections, Monitoring,
- 9 Entry, and Subpoenas.—The Administrator shall have
- 10 the same powers and authority provided under sections
- 11 114 and 307(a) of the Clean Air Act (42 U.S.C. 7414,
- 12 7607(a)) in carrying out, administering, and enforcing
- 13 this Act.
- 14 (d) Judicial Review.—A petition for judicial review
- 15 of any regulation promulgated, or final action carried out,
- 16 by the Administrator pursuant to this Act may be filed
- 17 only—
- 18 (1) in the United States Court of Appeals for
- the District of Columbia; and
- 20 (2) in accordance with section 307(b) of the
- 21 Clean Air Act (42 U.S.C. 7607(b)).
- 22 SEC. 9004. RETENTION OF STATE AUTHORITY.
- 23 (a) In General.—Except as provided in subsection
- 24 (b), in accordance with section 116 of the Clean Air Act
- 25 (42 U.S.C. 7416) and section 510 of the Federal Water

- 1 Pollution Control Act (33 U.S.C. 1370), nothing in this
- 2 Act precludes or abrogates the right of any State to adopt
- 3 or enforce—
- 4 (1) any standard, cap, limitation, or prohibition
- 5 relating to emissions of greenhouse gas; or
- 6 (2) any requirement relating to control, abate-
- 7 ment, or avoidance of emissions of greenhouse gas.
- 8 (b) Exception.—Notwithstanding subsection (a), no
- 9 State may adopt a standard, cap, limitation, prohibition,
- 10 or requirement that is less stringent than the applicable
- 11 standard, cap, limitation, prohibition, or requirement
- 12 under this Act.
- 13 SEC. 9005. TRIBAL AUTHORITY.
- 14 For purposes of this Act, the Administrator may
- 15 treat any federally recognized Indian tribe as a State, in
- 16 accordance with section 301(d) of the Clean Air Act (42
- 17 U.S.C. 7601(d)).
- 18 SEC. 9006. AUTHORIZATION OF APPROPRIATIONS.
- There are authorized to be appropriated such sums
- 20 as are necessary to carry out this Act.

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